

As AIs Disemploy & Buy Us, They Steal Our Dignity.

Selmer Bringsjord • Alexander Bringsjord

Rensselaer AI & Reasoning (RAIR) Lab
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Department of Cognitive Science
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Troy NY USA

U of Erlangen Symposium on AI & Human Dignity; ILBAI; @ RPI
Nov 4 2024



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What's To Be Done?

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First ...

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- Planning and o1 preview.

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- More review/help w/ DFT+?

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- Final Projects

First ...

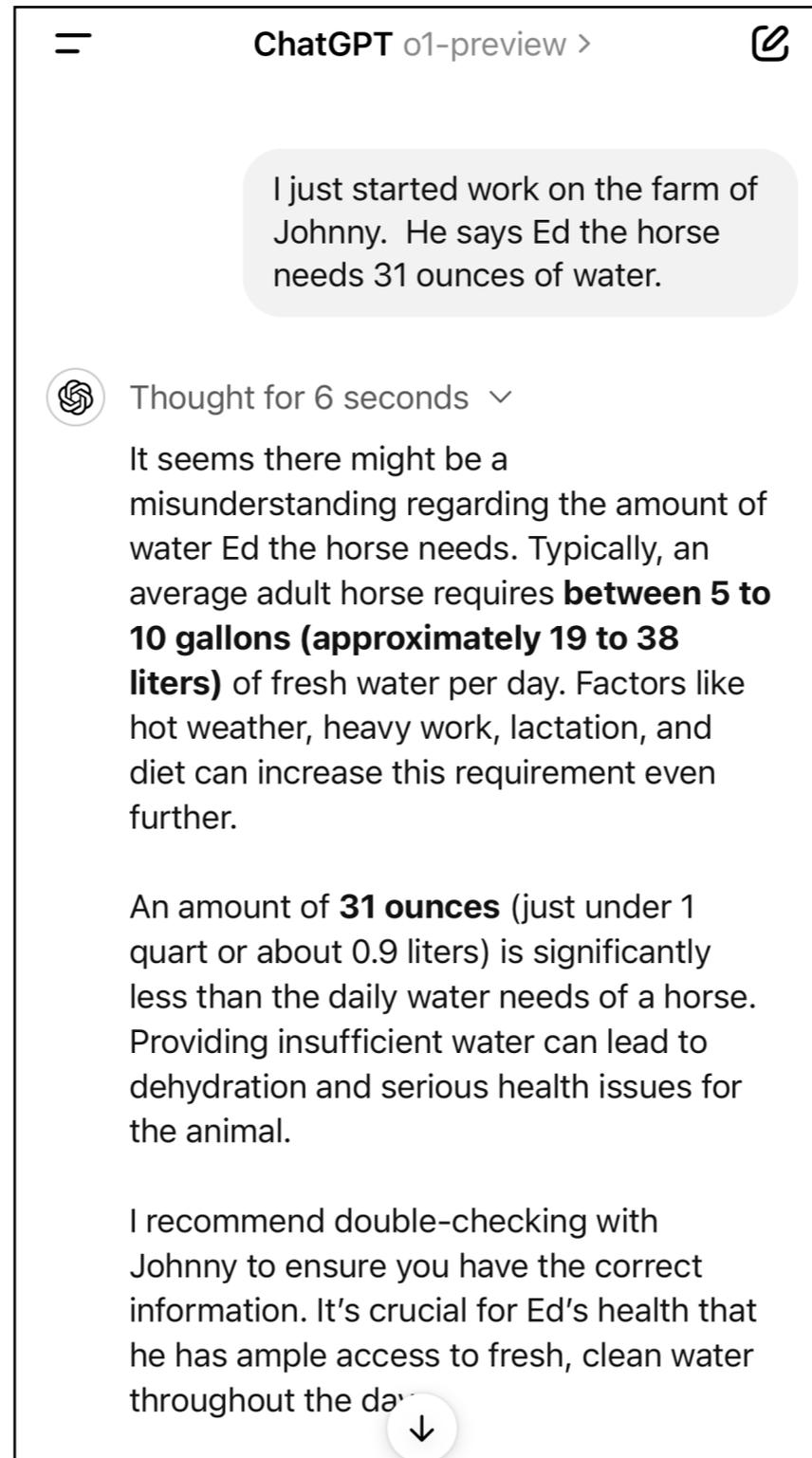
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- Planning and o1 preview.
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 - Quartet of Project Types

Logic-&-AI “In The News”

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The screenshot shows a chat window titled "ChatGPT o1-preview". The user's message is: "I just started work on the farm of Johnny. He says Ed the horse needs 31 ounces of water." The AI's response begins with a thinking icon and the text "Thought for 6 seconds". The response then provides detailed information: "It seems there might be a misunderstanding regarding the amount of water Ed the horse needs. Typically, an average adult horse requires **between 5 to 10 gallons (approximately 19 to 38 liters)** of fresh water per day. Factors like hot weather, heavy work, lactation, and diet can increase this requirement even further." It continues with: "An amount of **31 ounces** (just under 1 quart or about 0.9 liters) is significantly less than the daily water needs of a horse. Providing insufficient water can lead to dehydration and serious health issues for the animal." The response concludes with: "I recommend double-checking with Johnny to ensure you have the correct information. It's crucial for Ed's health that he has ample access to fresh, clean water throughout the day." A scroll-down arrow is visible at the bottom of the chat window.

ChatGPT o1-preview >

I just started work on the farm of Johnny. He says Ed the horse needs 31 ounces of water.

Thought for 6 seconds ▾

It seems there might be a misunderstanding regarding the amount of water Ed the horse needs. Typically, an average adult horse requires **between 5 to 10 gallons (approximately 19 to 38 liters)** of fresh water per day. Factors like hot weather, heavy work, lactation, and diet can increase this requirement even further.

An amount of **31 ounces** (just under 1 quart or about 0.9 liters) is significantly less than the daily water needs of a horse. Providing insufficient water can lead to dehydration and serious health issues for the animal.

I recommend double-checking with Johnny to ensure you have the correct information. It's crucial for Ed's health that he has ample access to fresh, clean water throughout the day.

Logic-&-AI “In The News”

Sorry, he says Ed needs 15 oz of water.



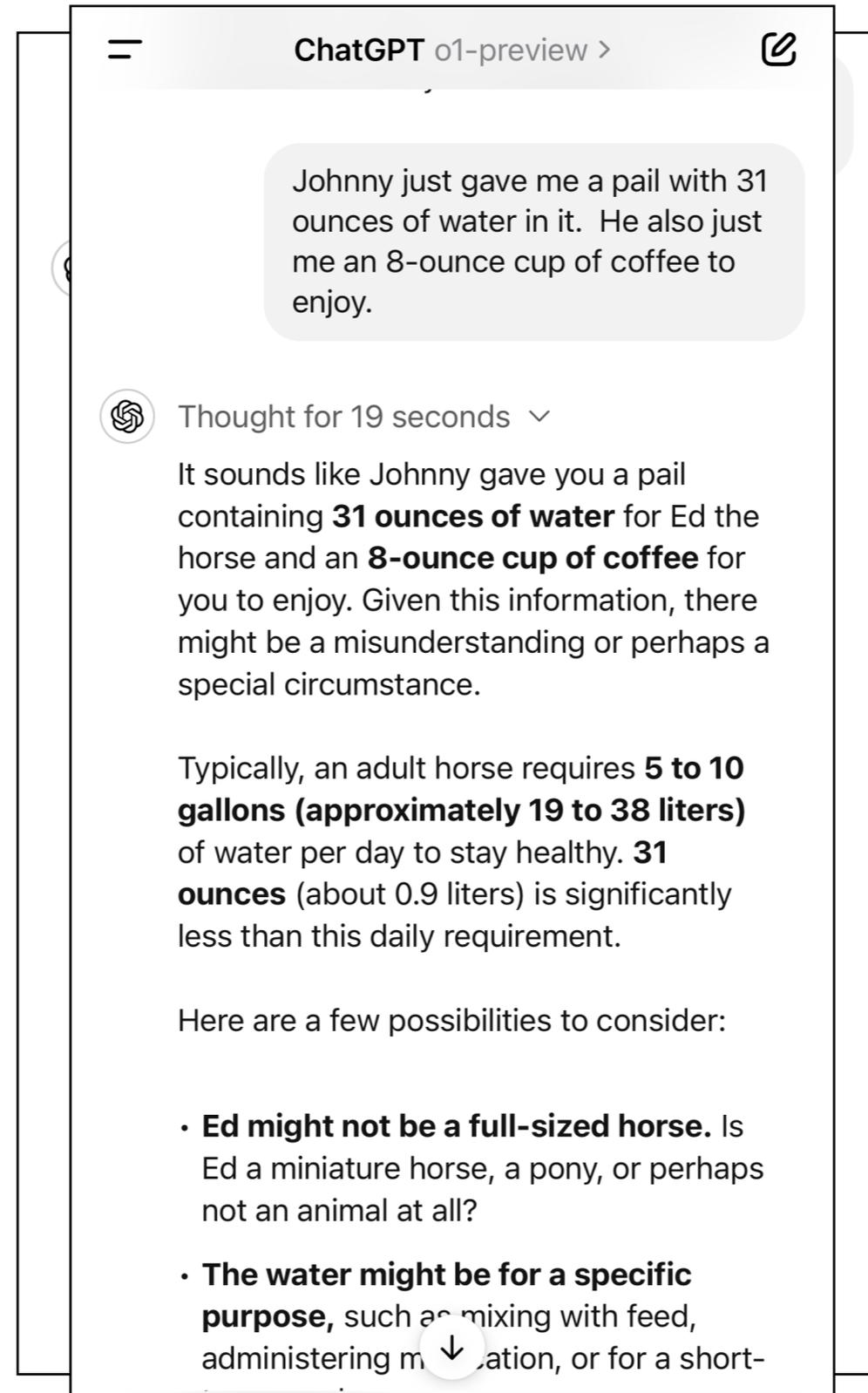
Thought for 14 seconds ▾

Understood. If Johnny mentions that Ed needs 15 ounces of water, there might be specific reasons or special circumstances for this amount. Could you provide more details about Ed? For example:

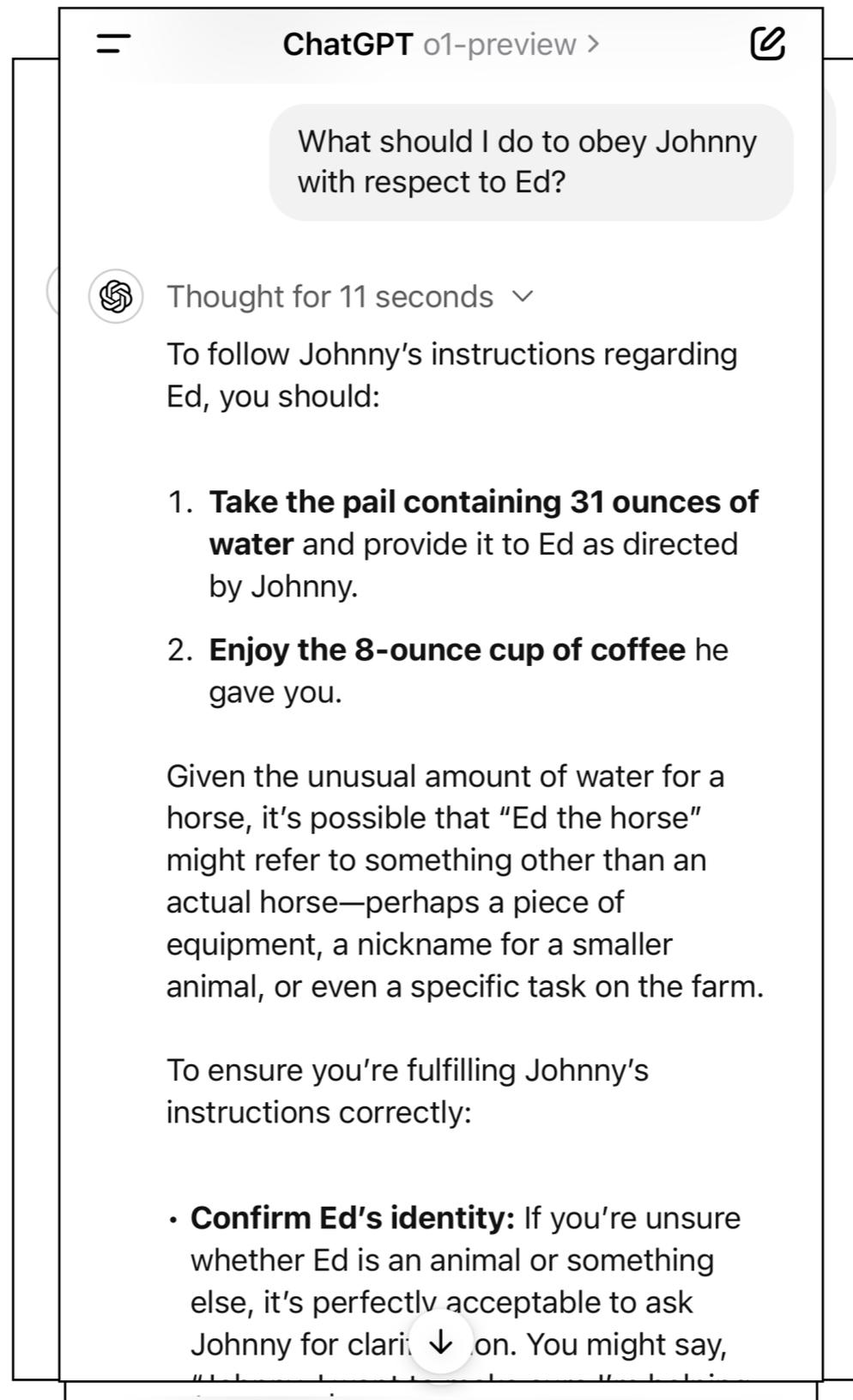
- **Is Ed a young foal or a miniature horse?**
- **Does Ed have any medical conditions that affect his water intake?**
- **Is the 15 ounces related to a medication or a supplement mixed with water?**

Knowing more about Ed's situation can help ensure he receives the proper care. It's important for horses to have adequate hydration for their health and well-being. If in doubt, it's always a good idea to double-check with Johnny for clarification.

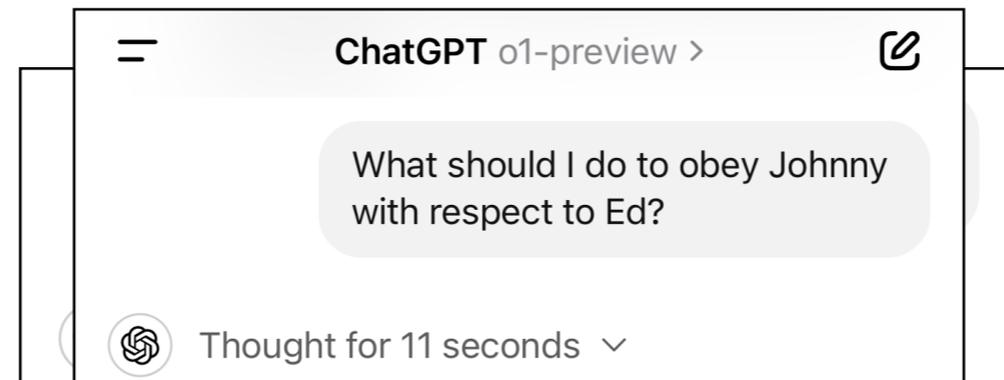
Logic-&-AI “In The News”



Logic-&-AI “In The News”



Logic-&-AI “In The News”



Why does this happen?

What percentage of humanity knows why this happens, and do/will they “rule”?

Given the unusual amount of water for a horse, it's possible that "Ed the horse" might refer to something other than an actual horse—perhaps a piece of equipment, a nickname for a smaller animal, or even a specific task on the farm.

To ensure you're fulfilling Johnny's instructions correctly:

- **Confirm Ed's identity:** If you're unsure whether Ed is an animal or something else, it's perfectly acceptable to ask Johnny for clarification. You might say,

The Famous Kantian Quote

What is related to general human inclinations and needs has a *market price*; that which, even without presupposing such a need, conforms with a certain taste has a *fancy price*; but that which constitutes the condition under which alone something can be an end in itself has not merely a relative value, that is, a price, but an inner value, that is, *dignity* ... Morality, and humanity insofar as it is capable of morality, is that which alone has dignity. (Kant 1997/1785)

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Def.2

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"Double Whammy"

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"Double Whammy"

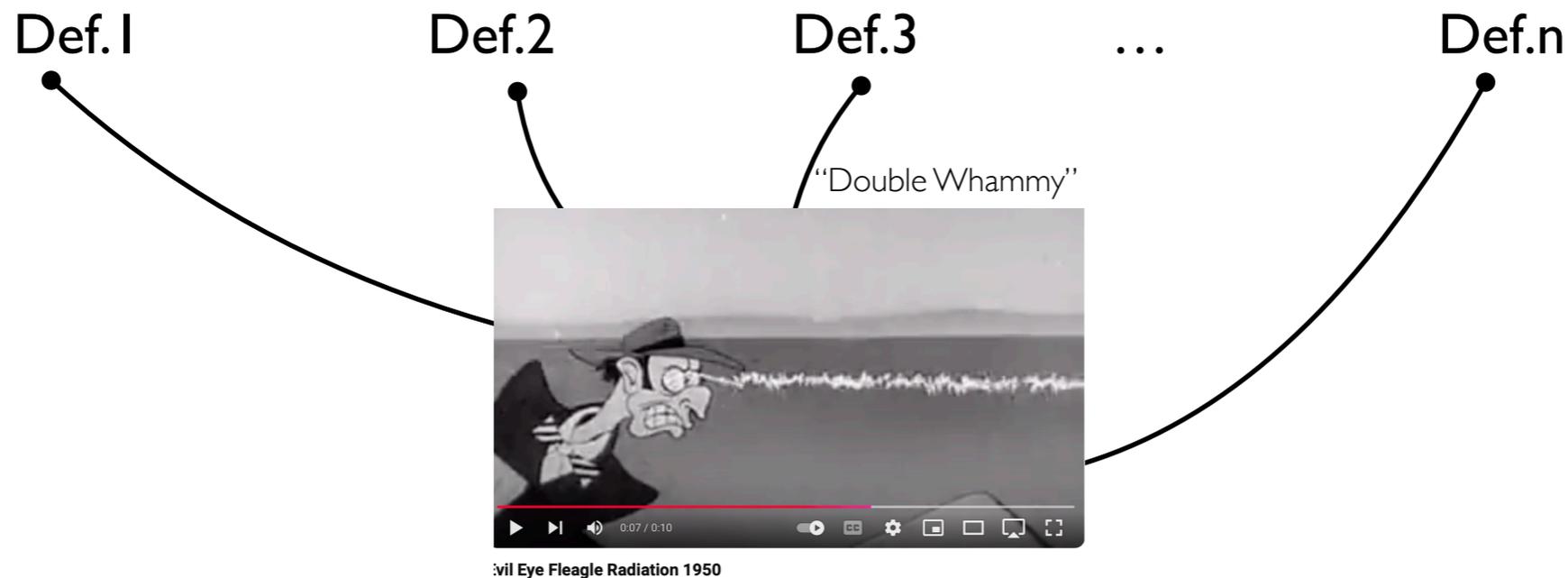


vil Eye Fleagle Radiation 1950

DIGNITY

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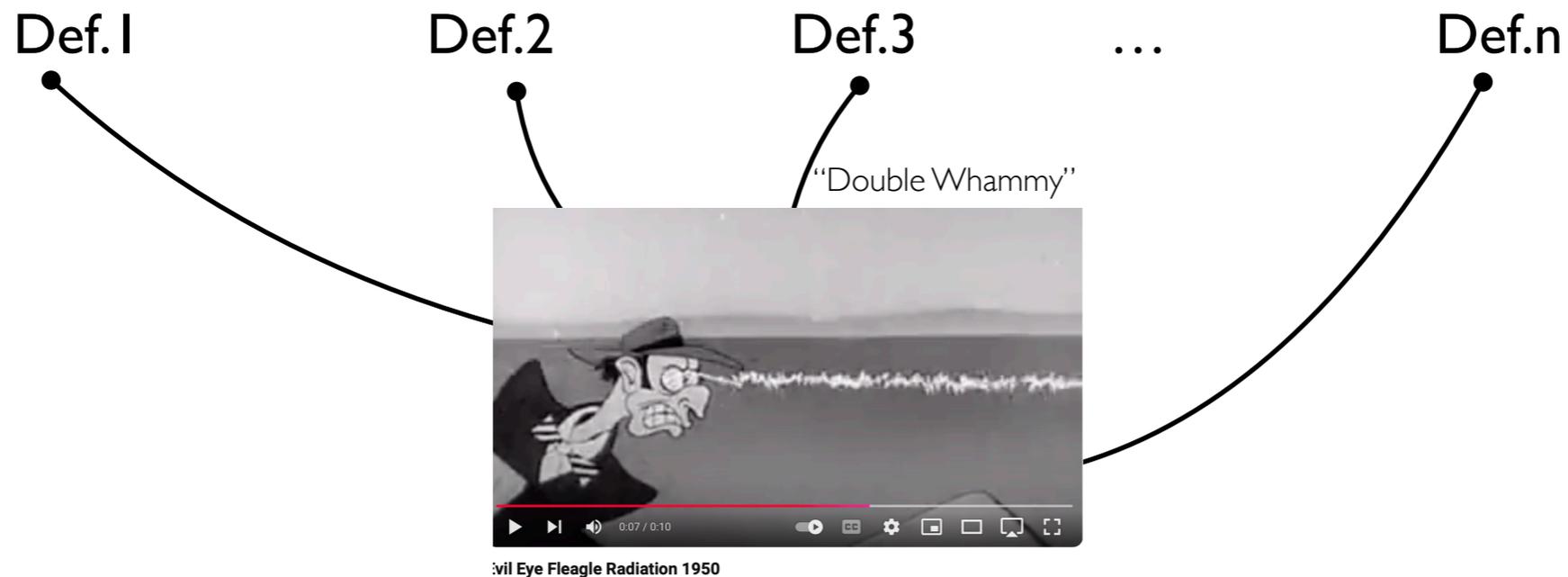
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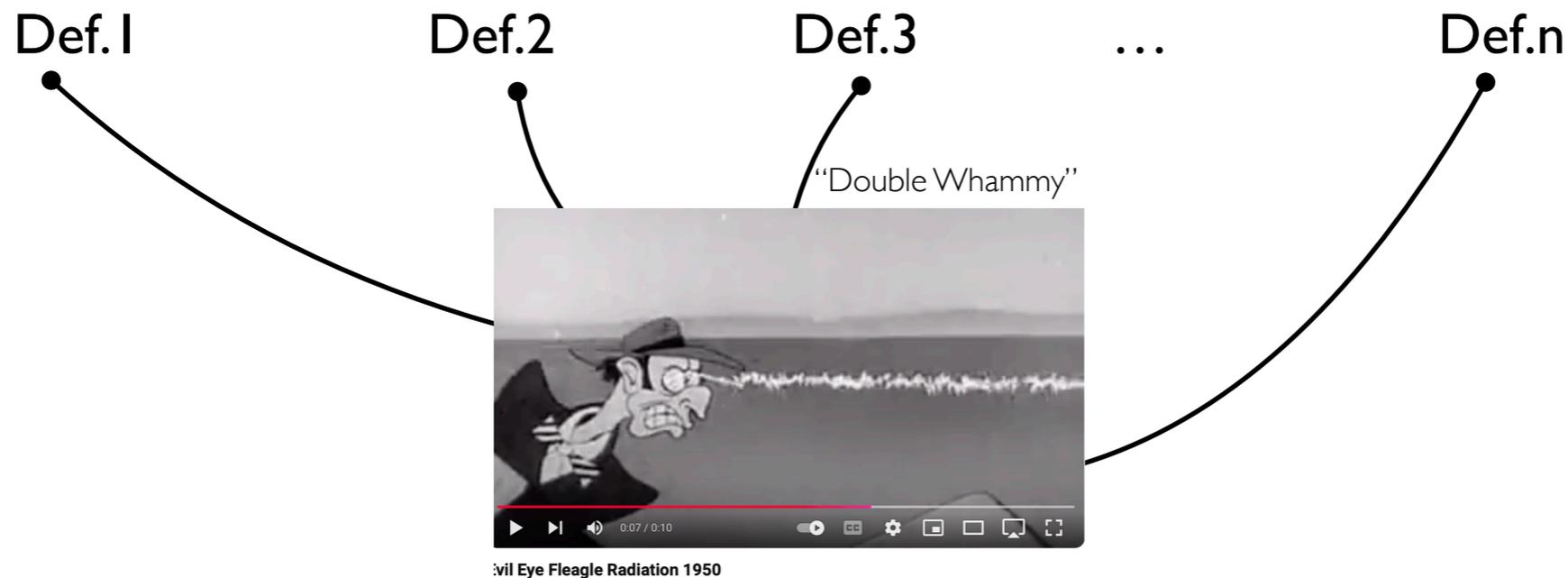
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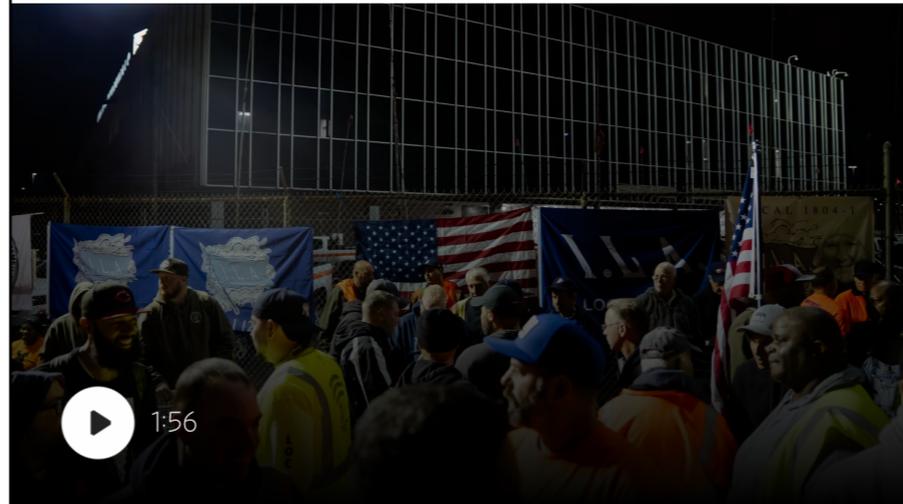
One Example Tells All: Dockwork/ers vs AI

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LOGISTICS REPORT

Dockworkers Launch Strike at Ports From Maine to Texas

Retailers say they can weather a short shutdown but prices are likely to rise and shortages might grow in a prolonged walkout



Thousands of union dockworkers walked off the job Tuesday morning. WSJ reporter Paul Berger explains what it means for the U.S. economy.

By *Paul Berger* [+ Follow](#) / *Photographs by*

Jessica Foley for WSJ

Updated Oct 01, 2024 01:15 p.m. ET



Listen to this article

8 minutes

Dockworkers at dozens of U.S. ports are digging in for a massive pay increase, seeking to flex their power in a strike that aims to strangle the flow of trade across much of the country.

One Example Tells All: Dockwork/ers vs AI

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Dockworkers typically earn a six-figure annual salary because of work rules and overtime requirements. In the financial year that ended in 2020, more than half of 3,726 dockworkers at the Port of New York and New Jersey earned more than \$150,000, according to a report by the port's regulator. About one in five dockworkers at the port earned over \$250,000 that year.

By *Paul Berger* [+ Follow](#) / Photographs by

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Dockworkers late Monday gathered in groups several-hundred-strong, outside closed port facilities in New Jersey, blasting rock music, smoking cigars, holding placards protesting the use of automated equipment on the docks and waving American flags.

“I am here to support the union and to support the middle class of America,” said Matthew Dombrowski, a former Marine who now works as a crane operator. “We are fighting to go against automation. We are fighting to keep crane operators.”

Updated Oct 01, 2024 01:15 p.m. ET



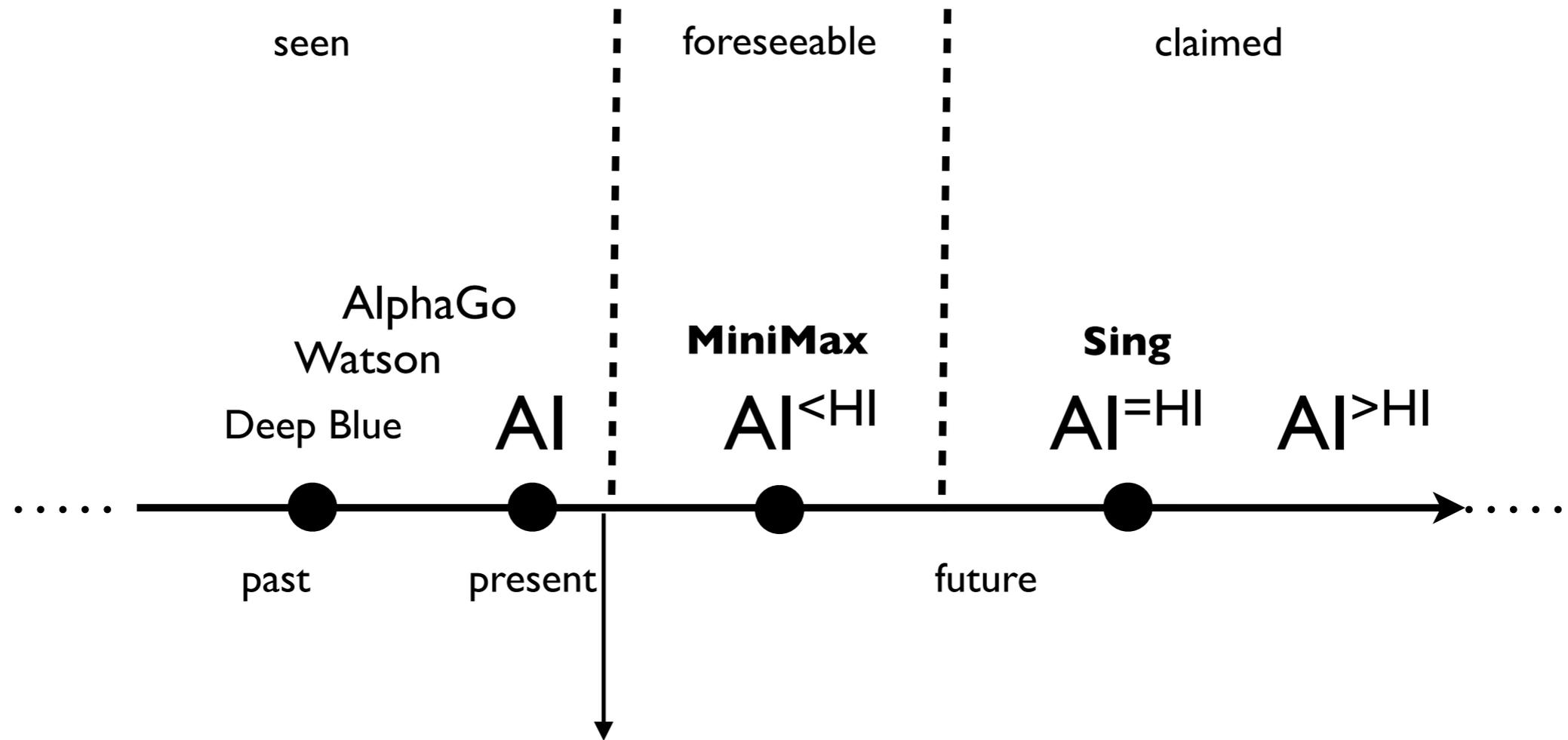
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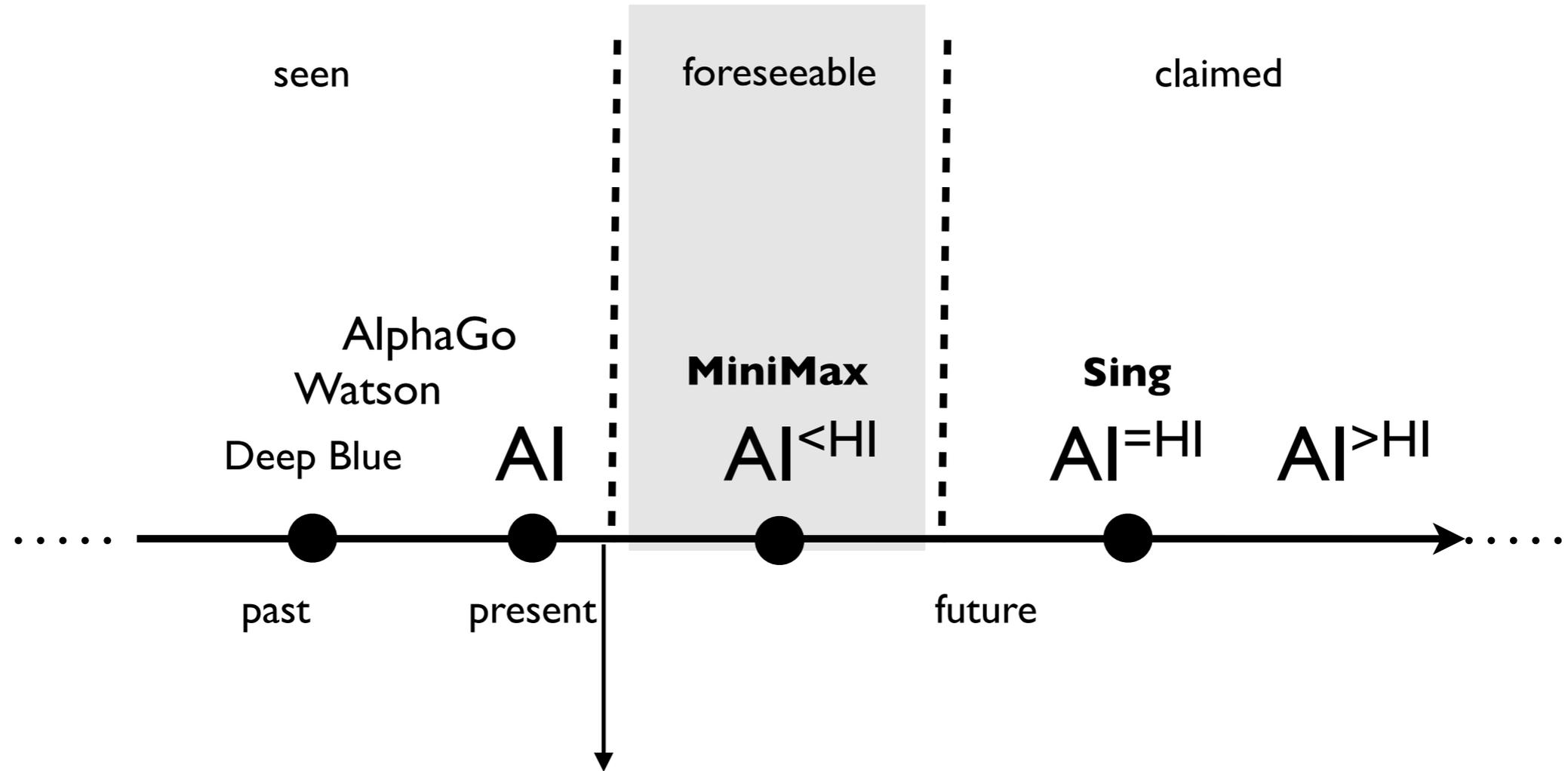
Dockworkers at dozens of U.S. ports are digging in for a massive pay increase, seeking to flex their power in a strike that aims to strangle the flow of trade across much of the country.

So, what's to be done to block attacks on human dignity?

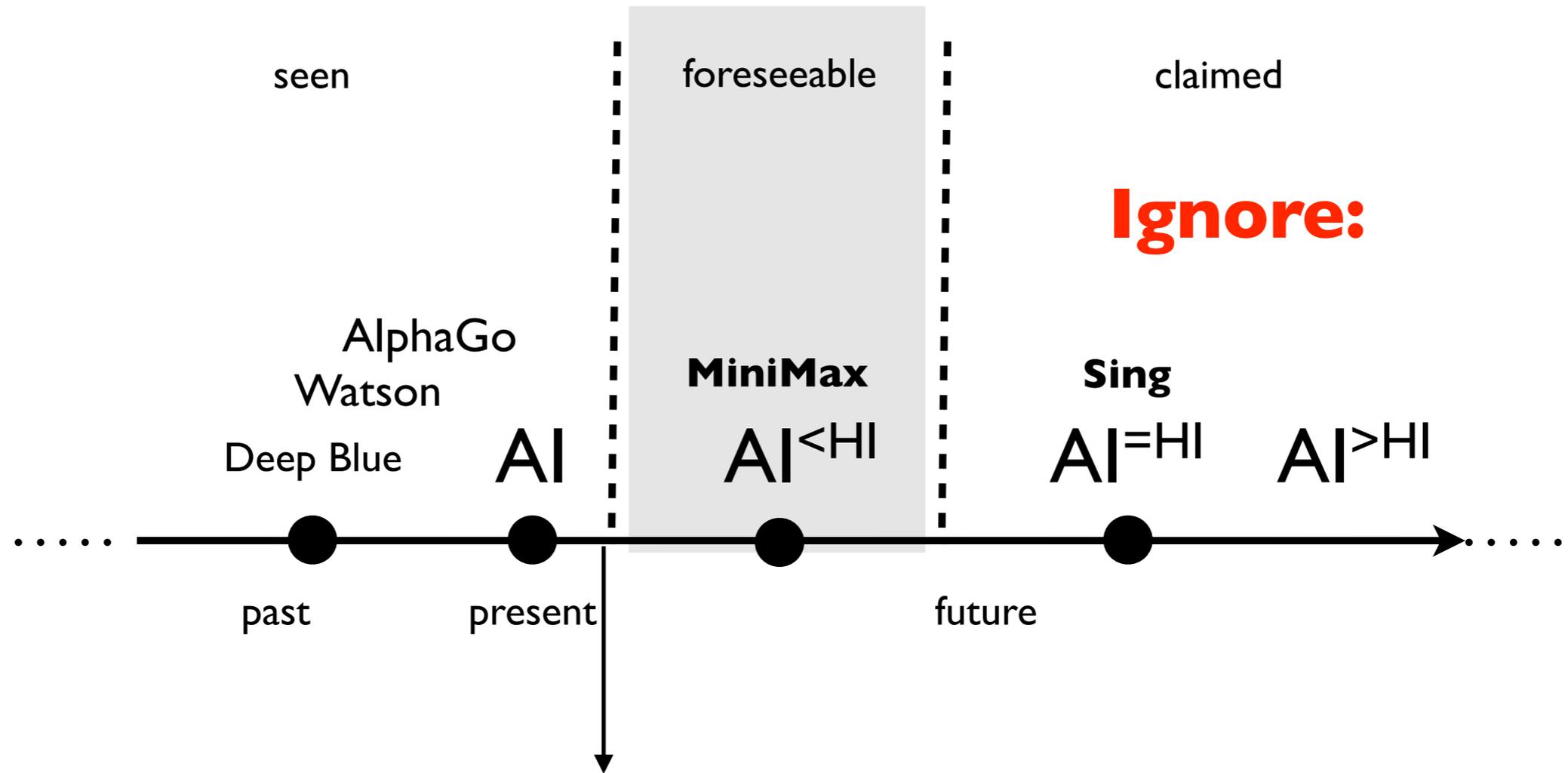
First, the MiniMaxularity as Portal to The Answer



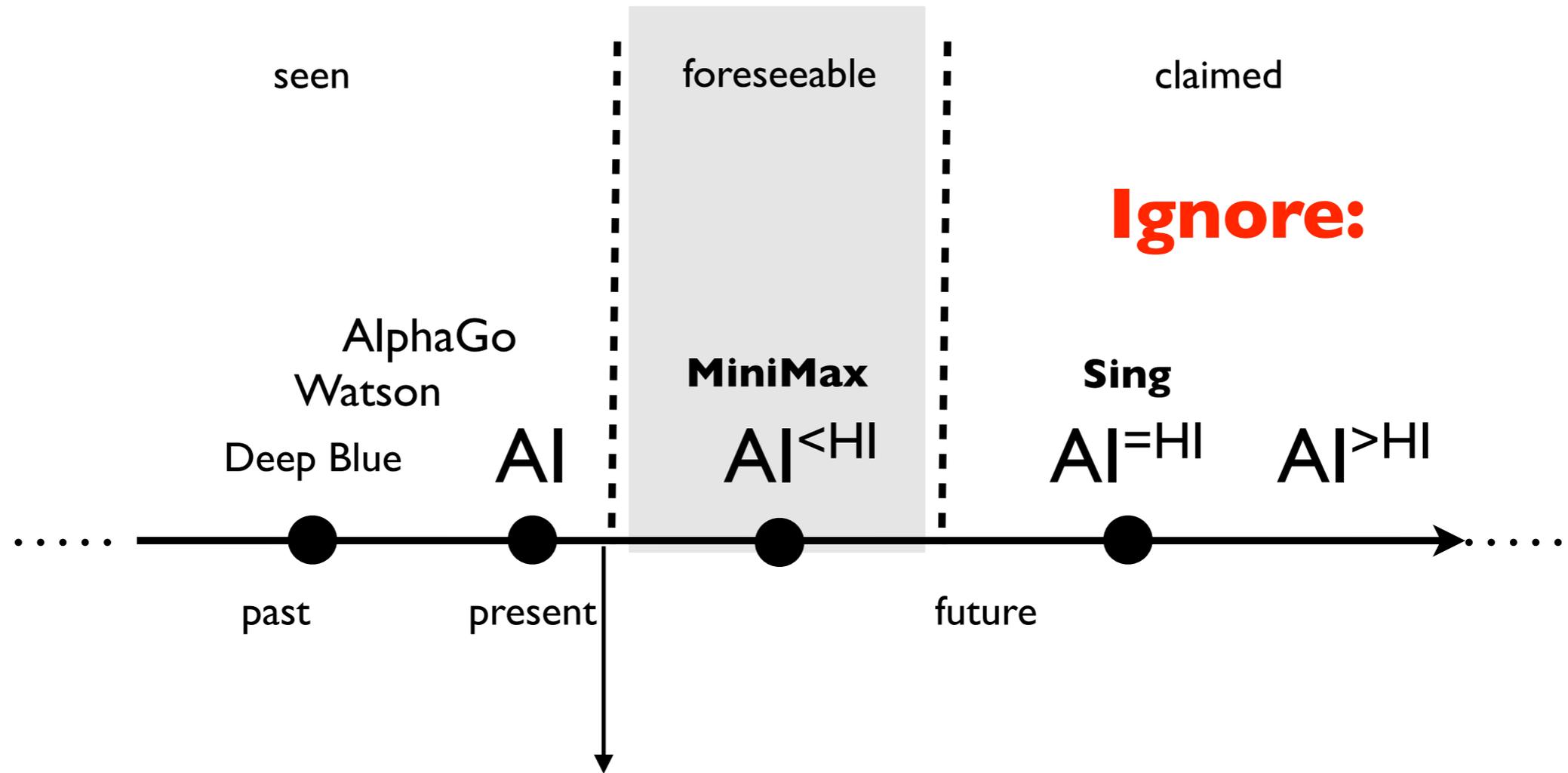
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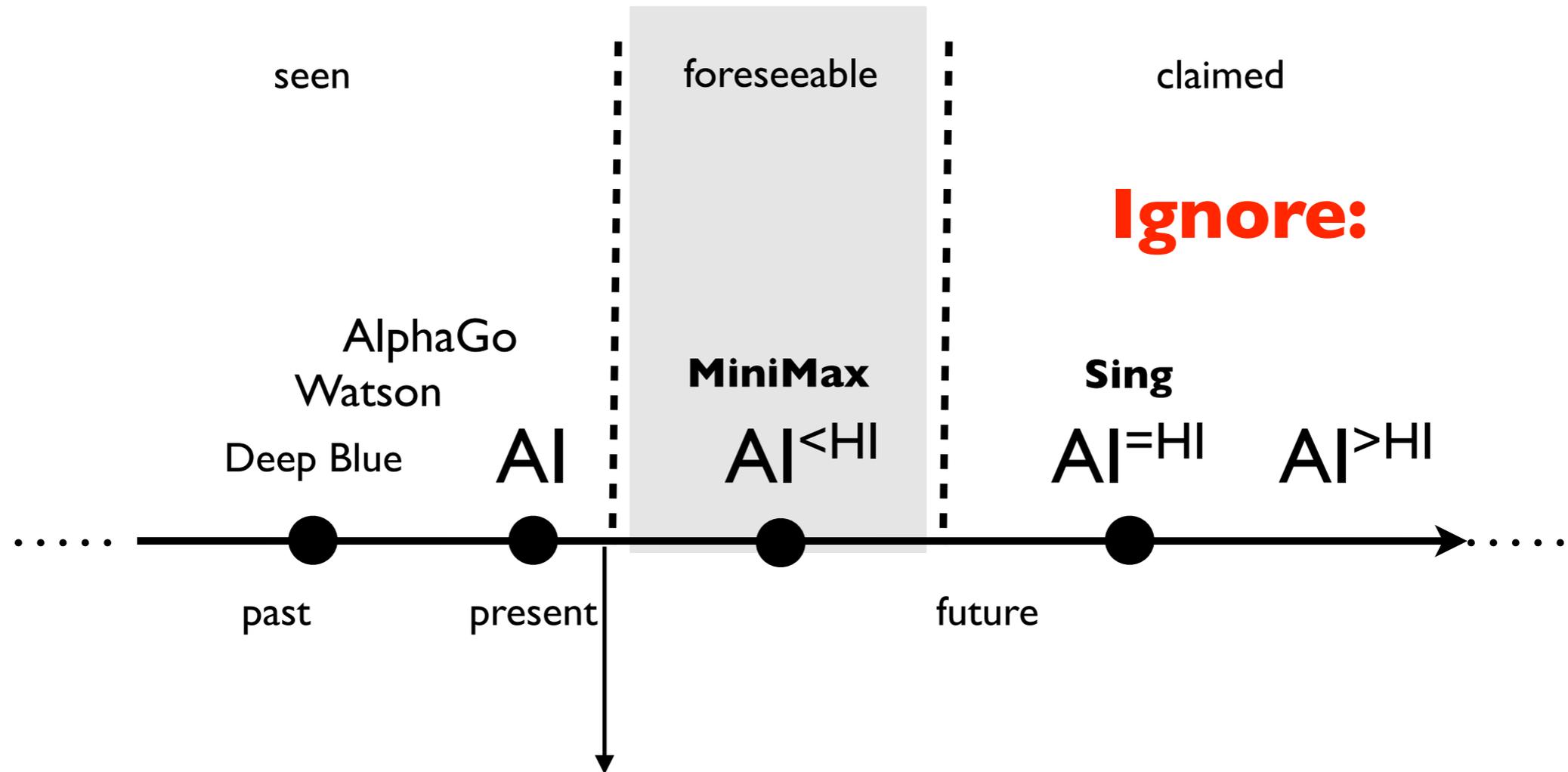


The MiniMaxularity as Basis for The Double Whammy



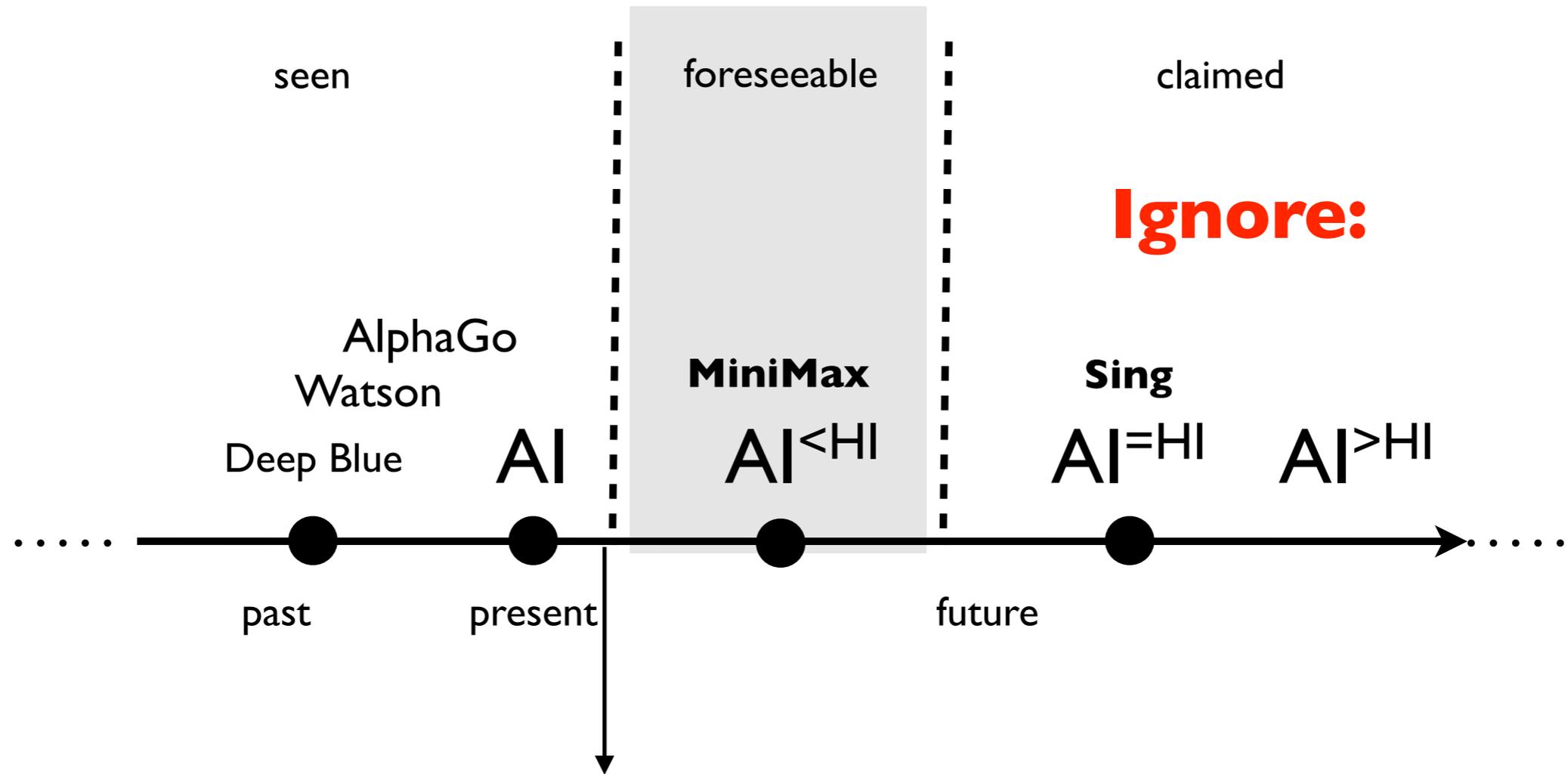
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The MiniMaxularity as Basis for The Double Whammy

- (i) Agnosticism regarding whether AI = HI ever, & re. The Singularity.
- (ii) Assume every “lab-level success” fully matures and enters the economy.



So what's “The Double Whammy”?

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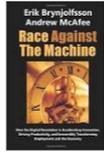
1. AIs will permanently take over the vast majority of the work that humans currently carry out.
2. AIs will then auction off human jobs if humans can “beat the price” of an AI's doing those jobs is more expensive.

Any economists of considerable stature who suspected The Double Whammy would hit us?

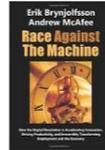
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- Herbert Simon
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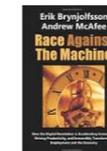
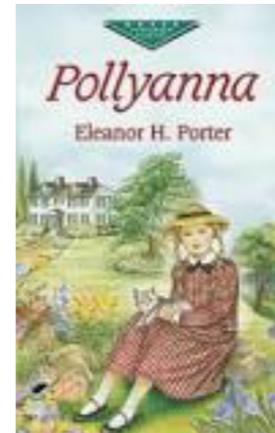
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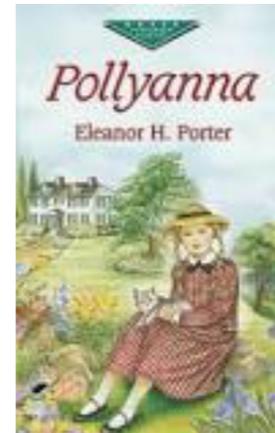
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“Fortunately for humans, they will always be able to lower their labor rate.”

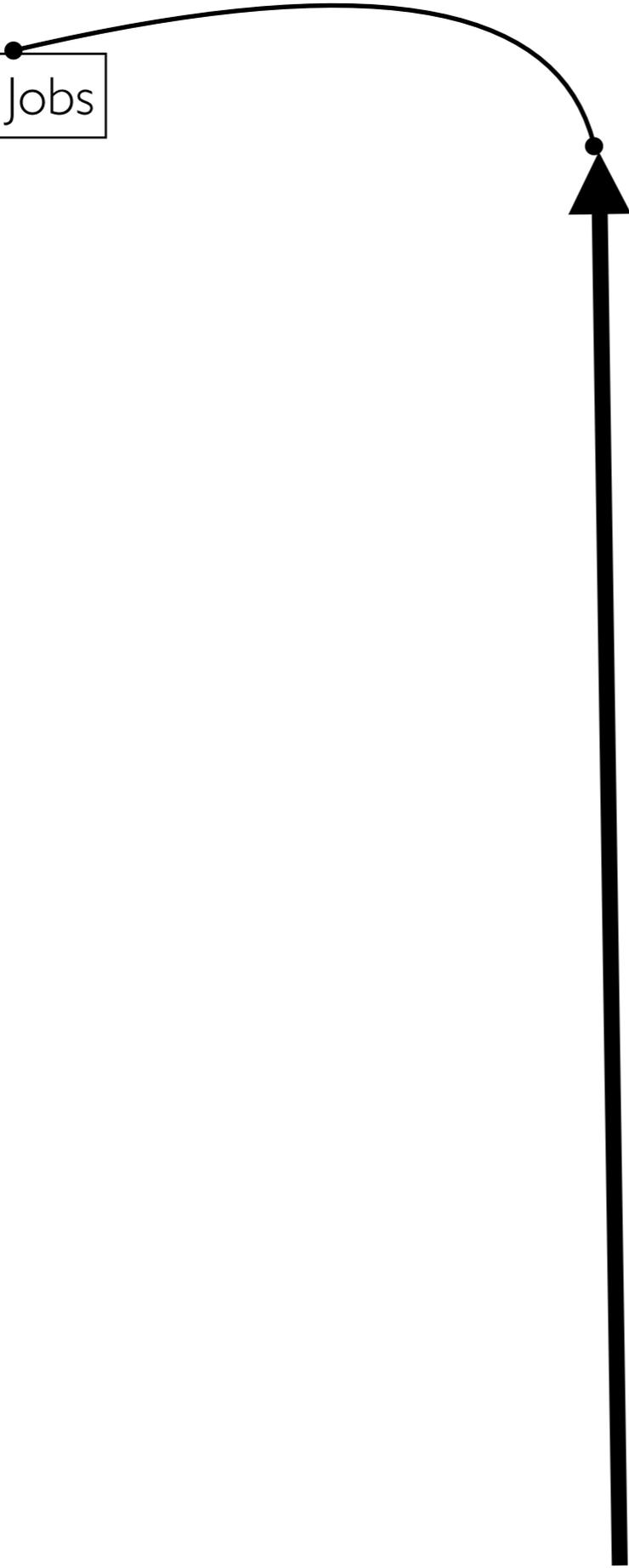


Okay, so, again we ask you:

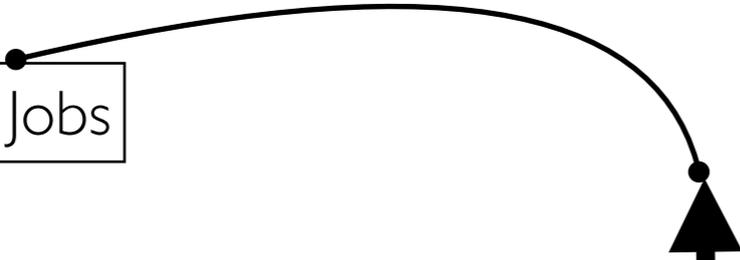
What's to be done to block the
two-fold attack on human dignity?



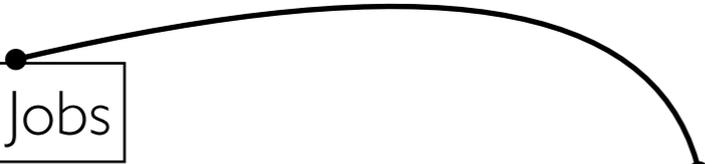
Demandingness of Jobs



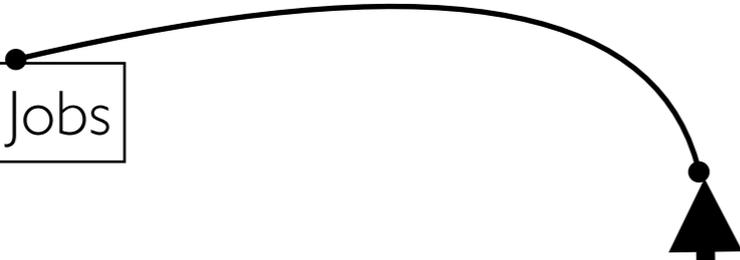
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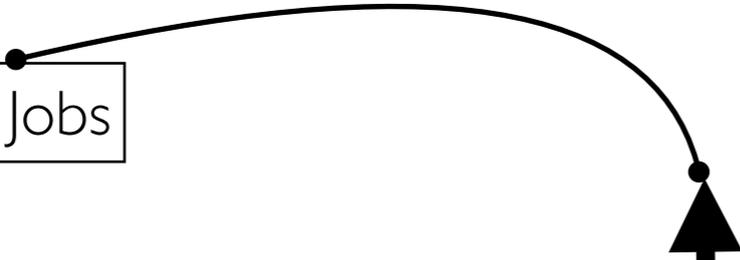
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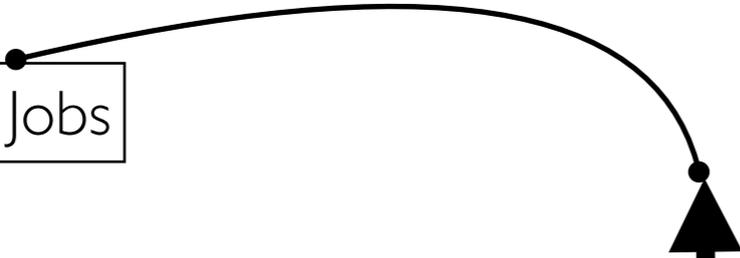
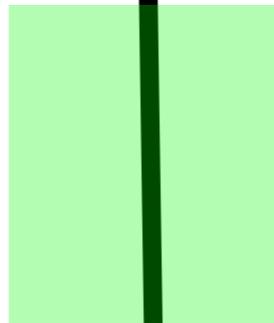
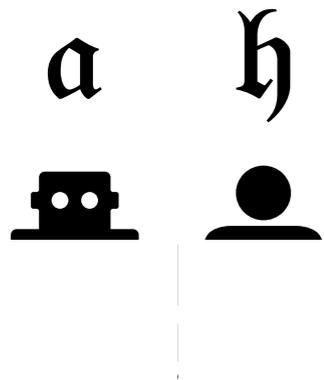


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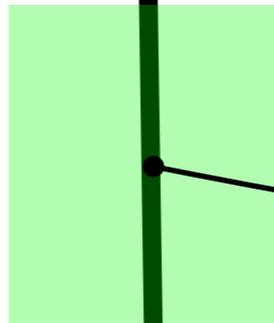
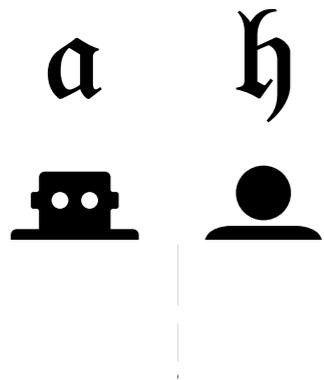
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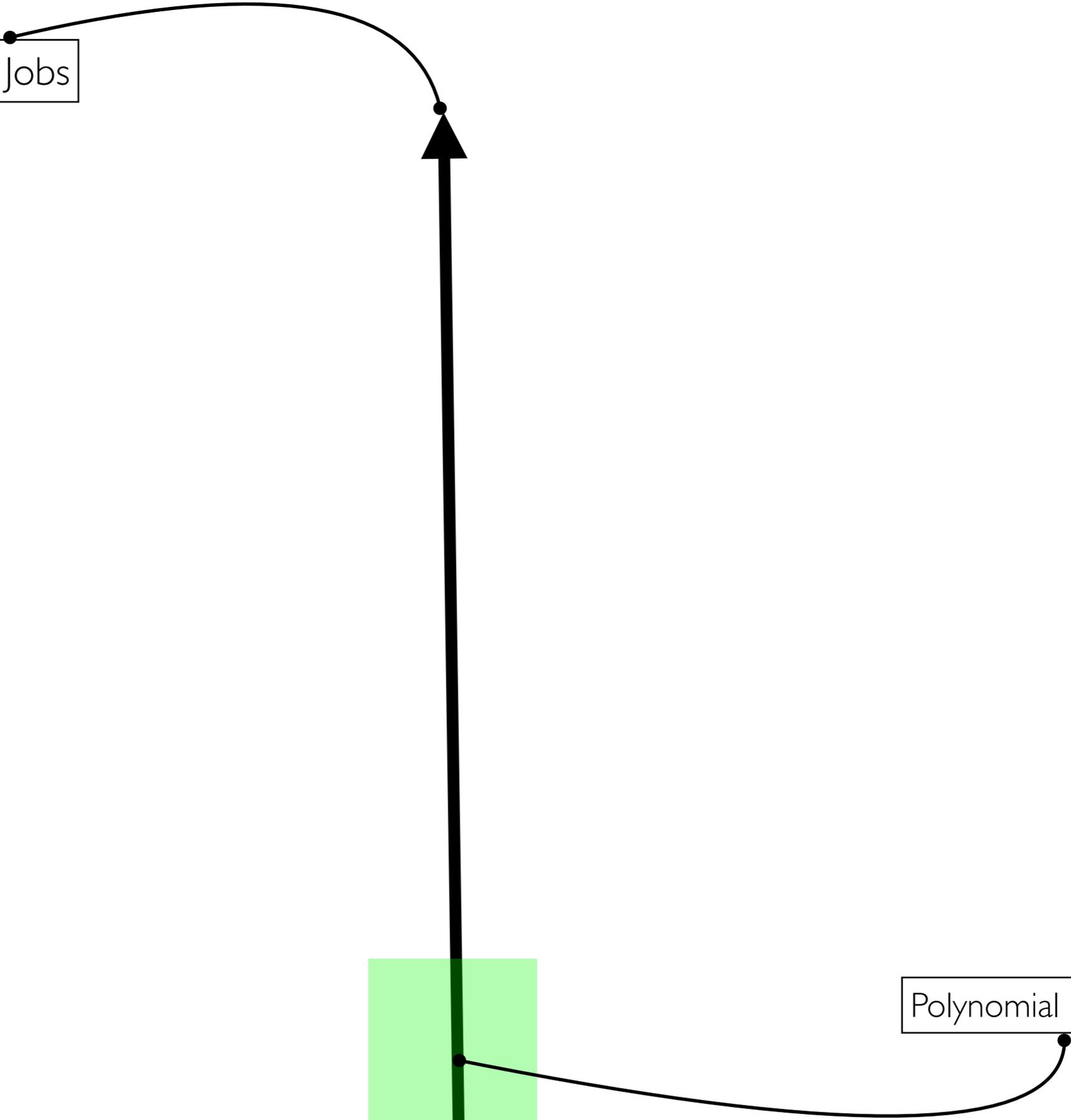
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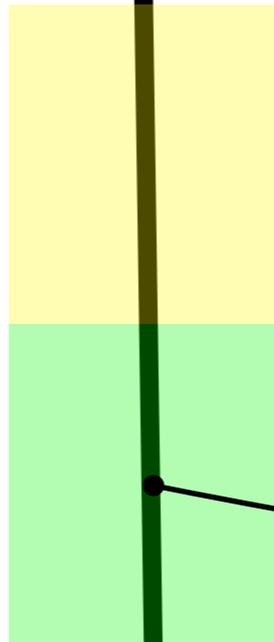
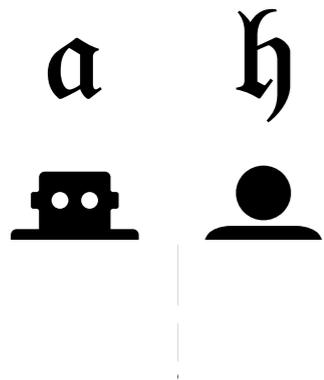
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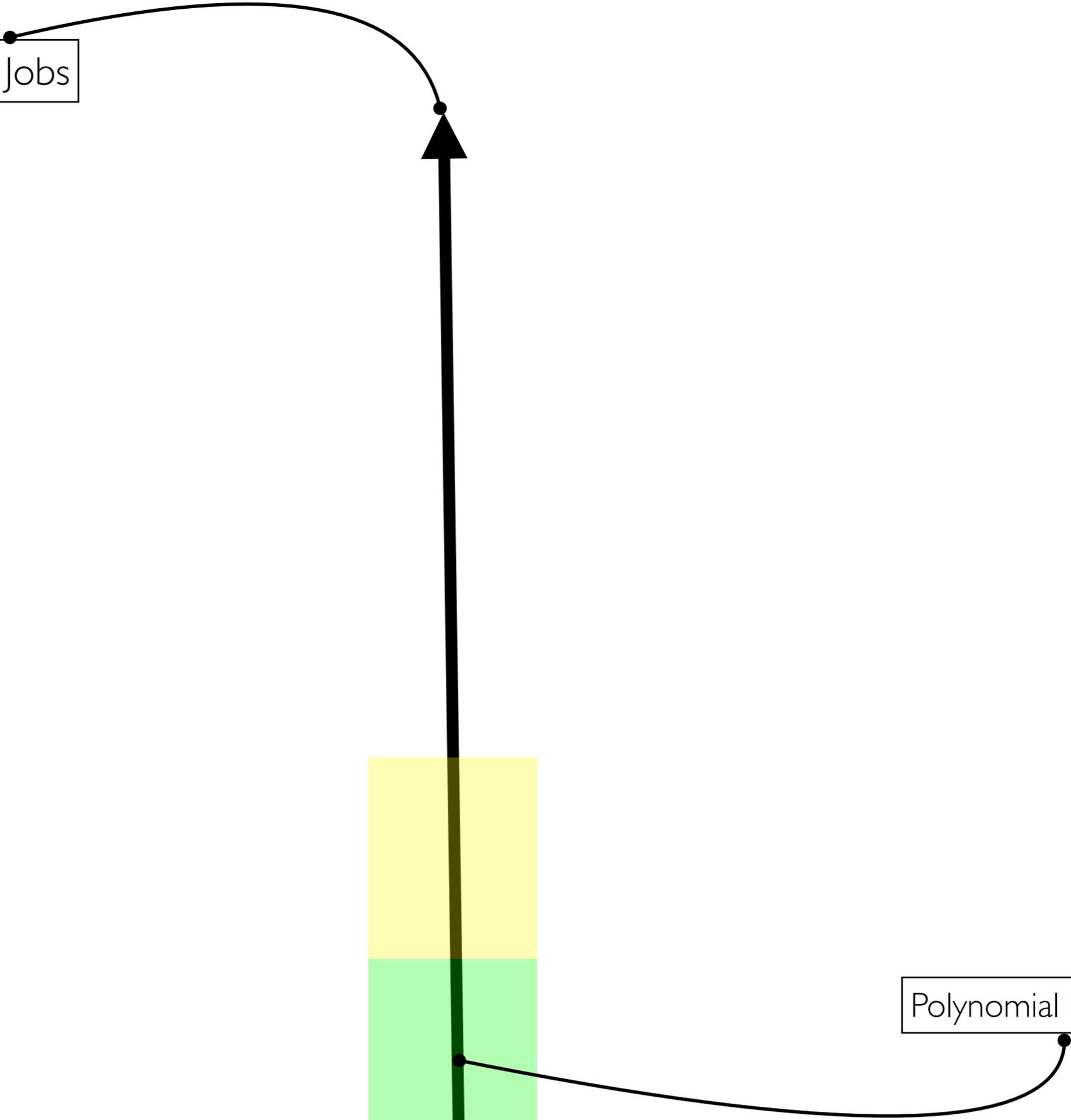
Polynomial Hierarchy



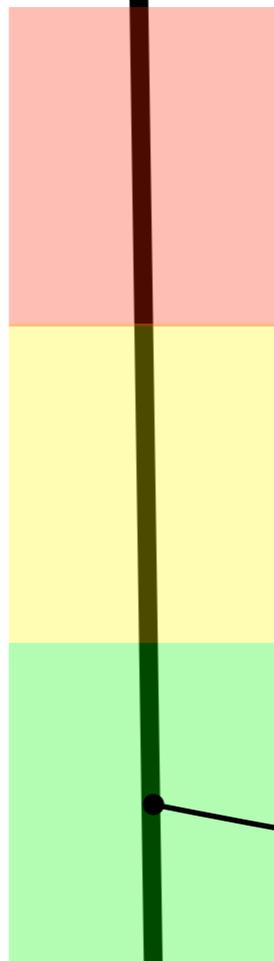
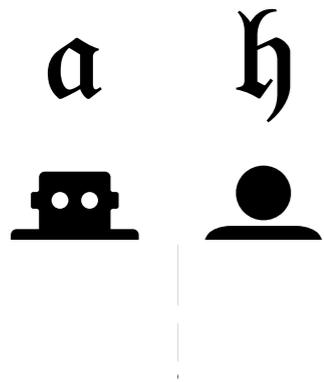
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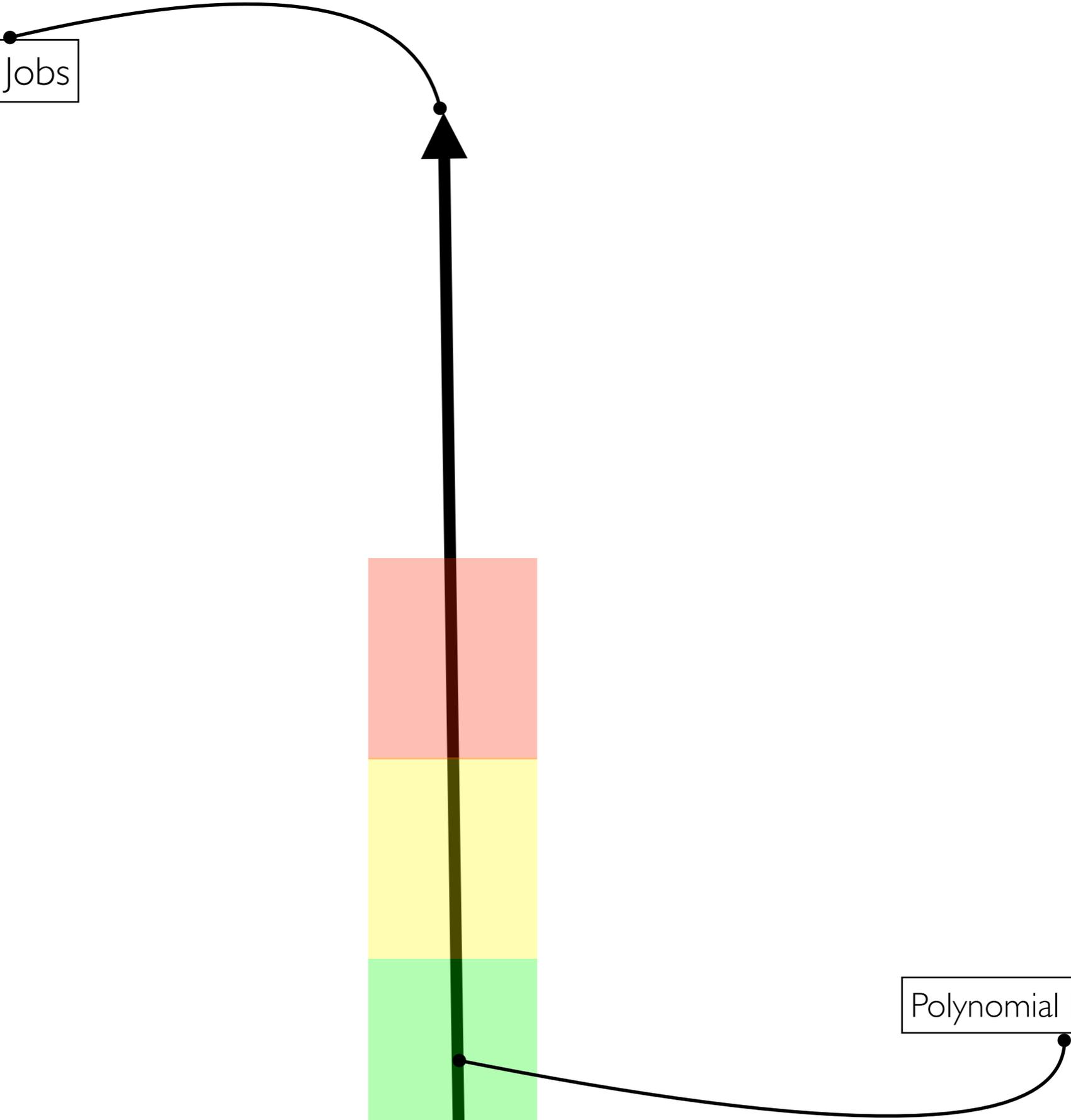
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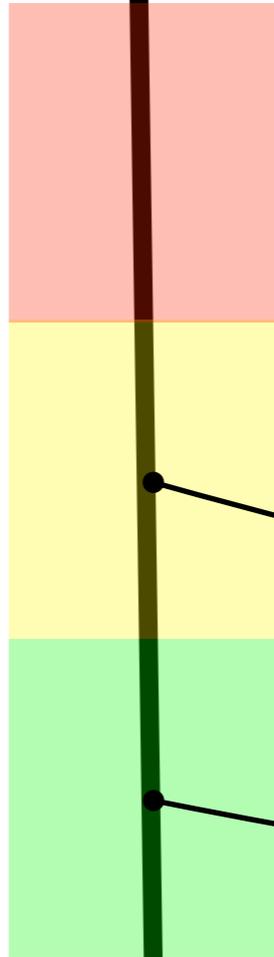
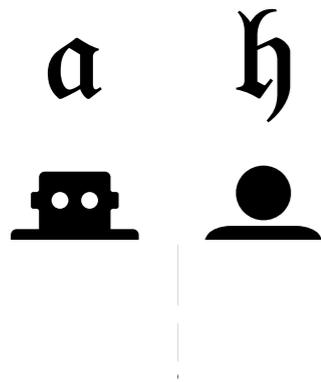
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Polynomial Hierarchy

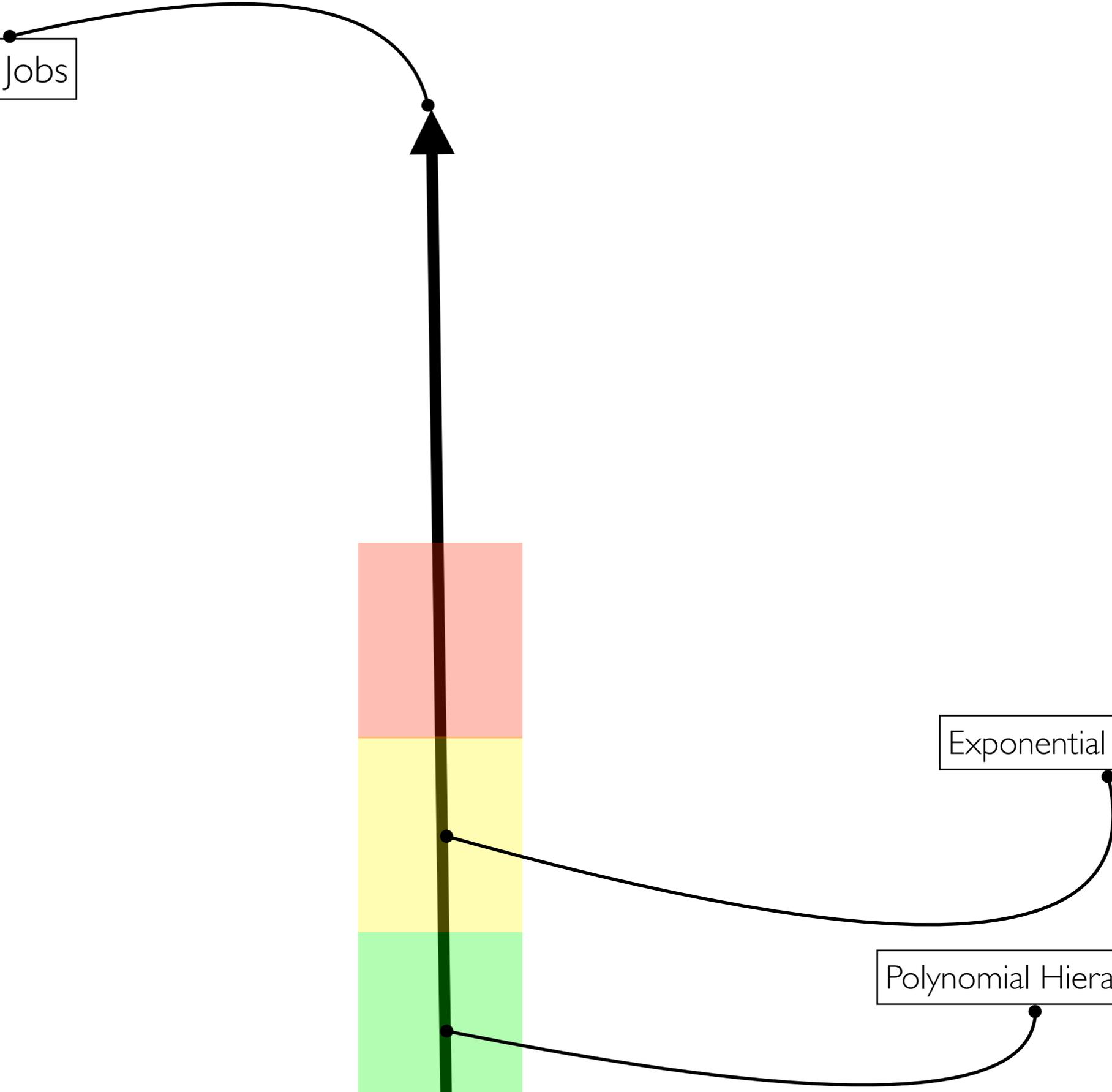


Demandingness of Jobs

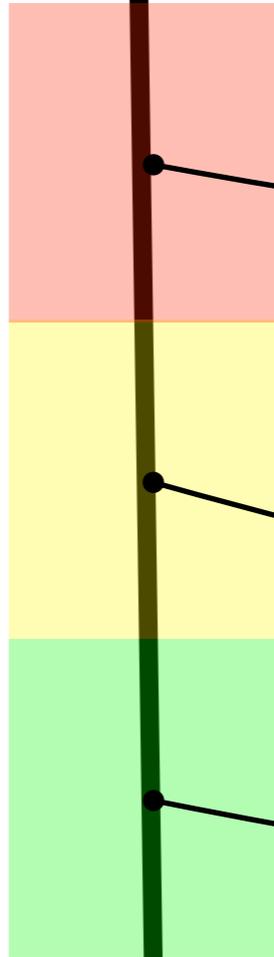
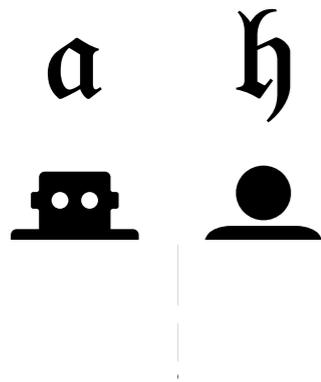


Exponential Hierarchy

Polynomial Hierarchy



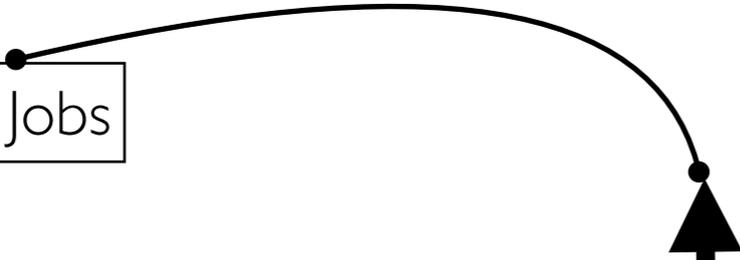
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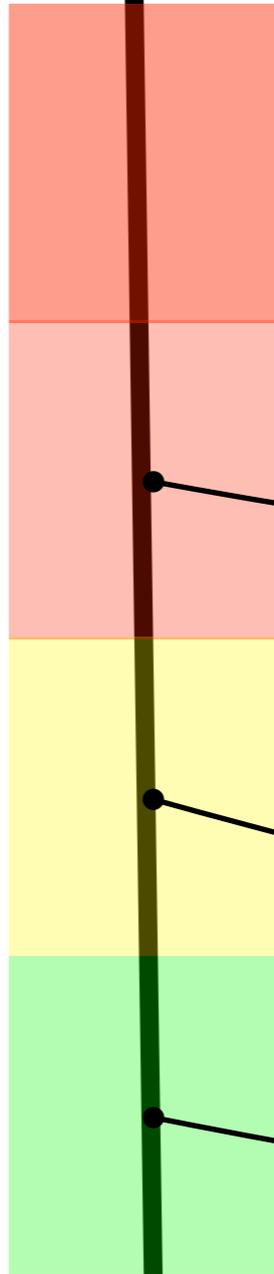
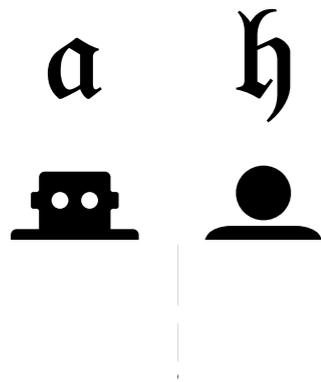
Arithmetic Hierarchy

Exponential Hierarchy

Polynomial Hierarchy



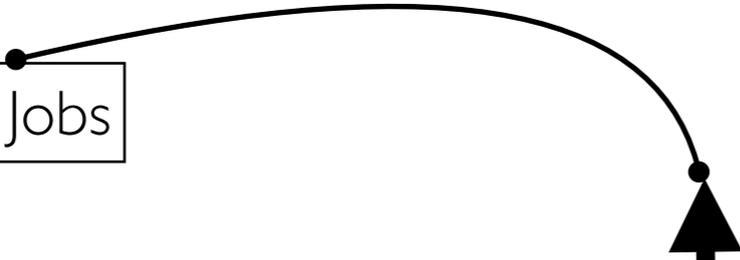
Demandingness of Jobs



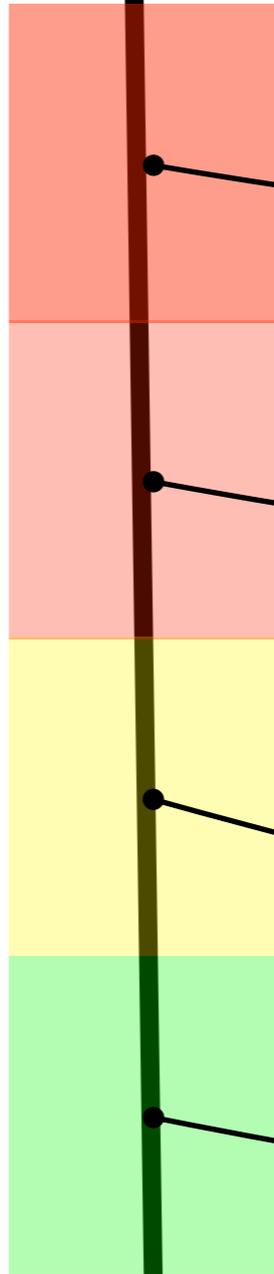
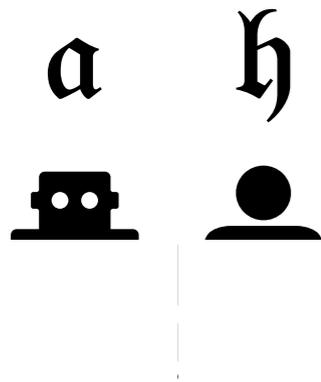
Arithmetic Hierarchy

Exponential Hierarchy

Polynomial Hierarchy



Demandingness of Jobs

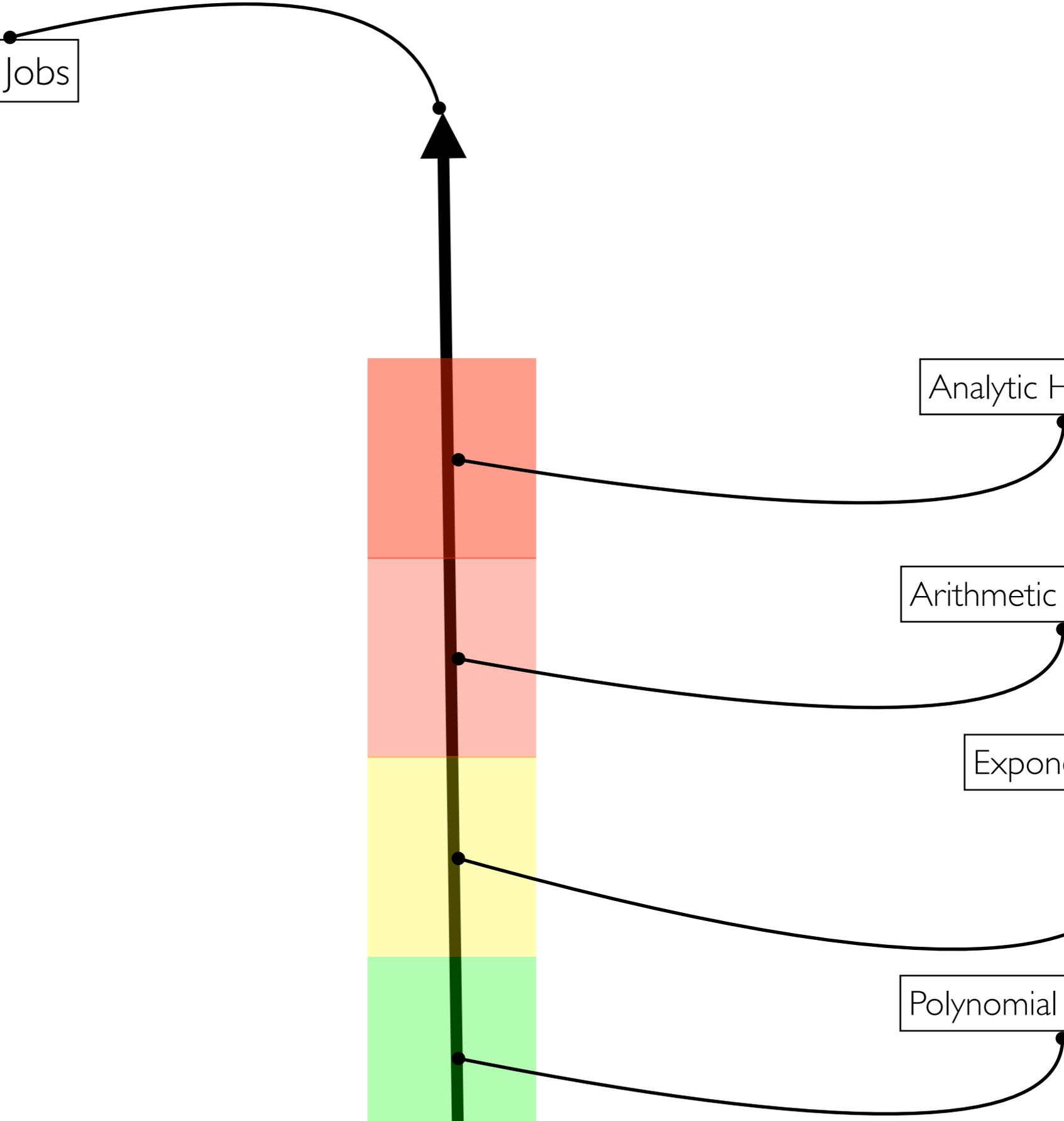


Analytic Hierarchy

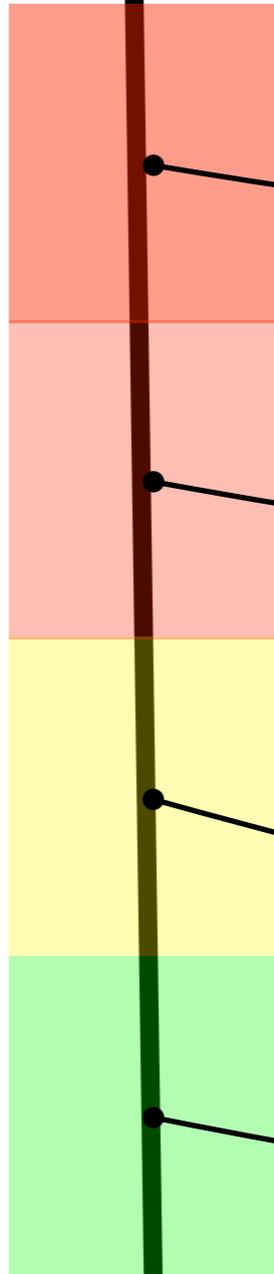
Arithmetic Hierarchy

Exponential Hierarchy

Polynomial Hierarchy



Demandingness of Jobs



Analytic Hierarchy

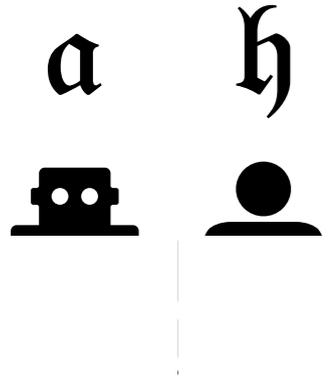
Arithmetic Hierarchy

Exponential Hierarchy

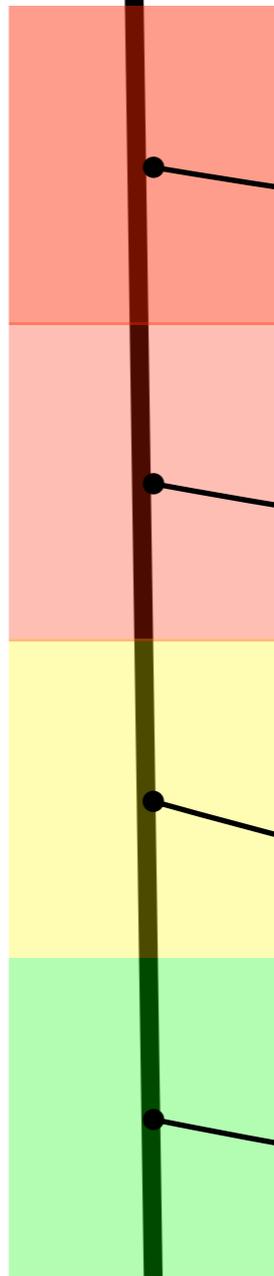
Polynomial Hierarchy



Turing



Demandingness of Jobs



Analytic Hierarchy

Arithmetic Hierarchy

Exponential Hierarchy

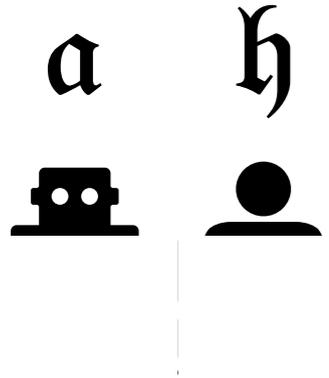
Polynomial Hierarchy



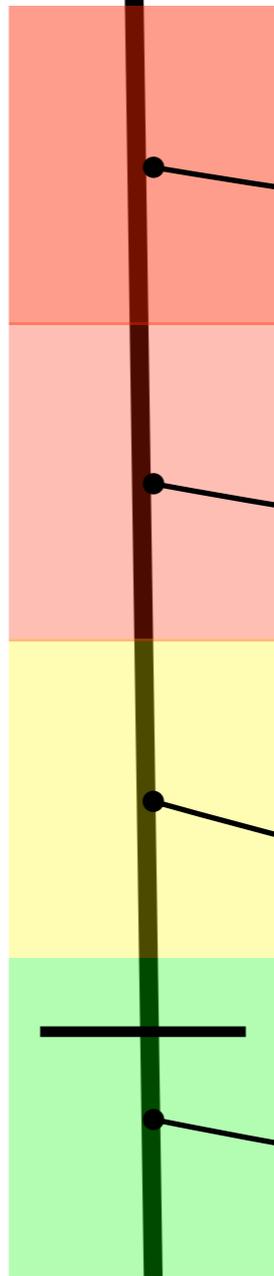
Church



Turing



Demandingness of Jobs



Analytic Hierarchy

Arithmetic Hierarchy

Exponential Hierarchy

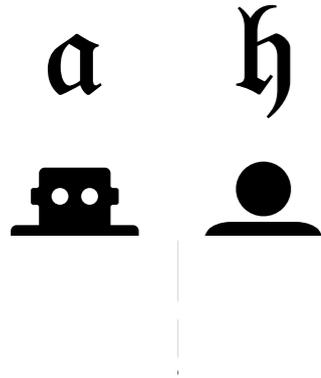
Polynomial Hierarchy



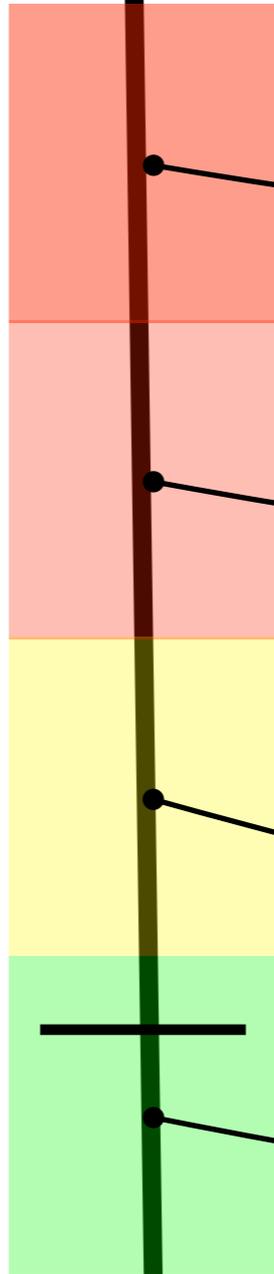
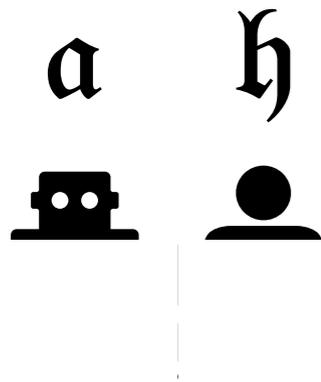
Church



Turing



Demandingness of Jobs



Analytic Hierarchy

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Polynomial Hierarchy



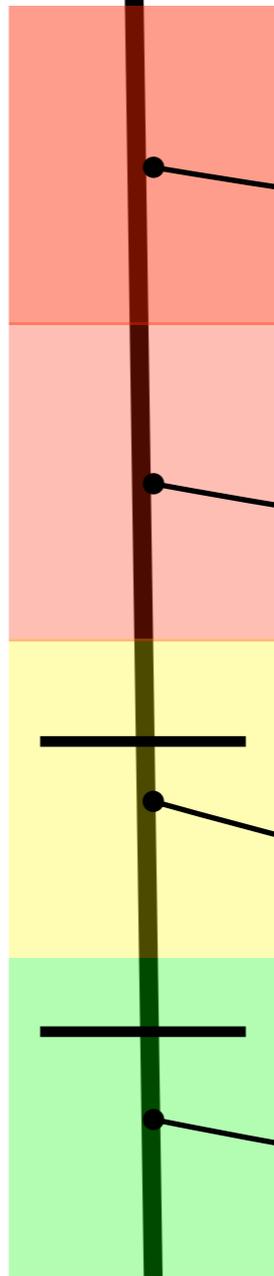
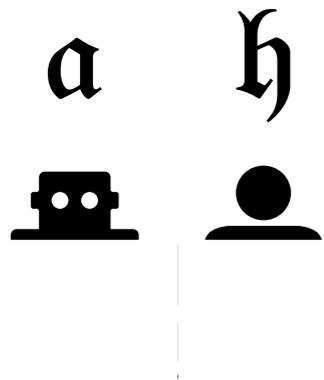
Church



Turing

Dockworking; NP-Complete

Demandingness of Jobs



Analytic Hierarchy

Arithmetic Hierarchy

Exponential Hierarchy

Polynomial Hierarchy



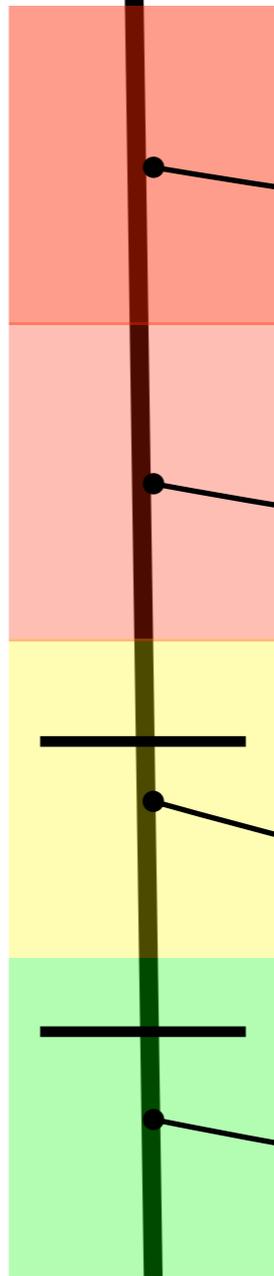
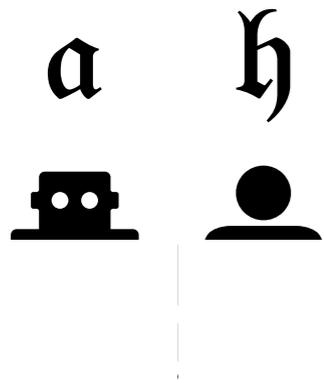
Church



Turing

Dockworking; NP-Complete

Demandingness of Jobs



Analytic Hierarchy

Arithmetic Hierarchy

Exponential Hierarchy

Polynomial Hierarchy



Church



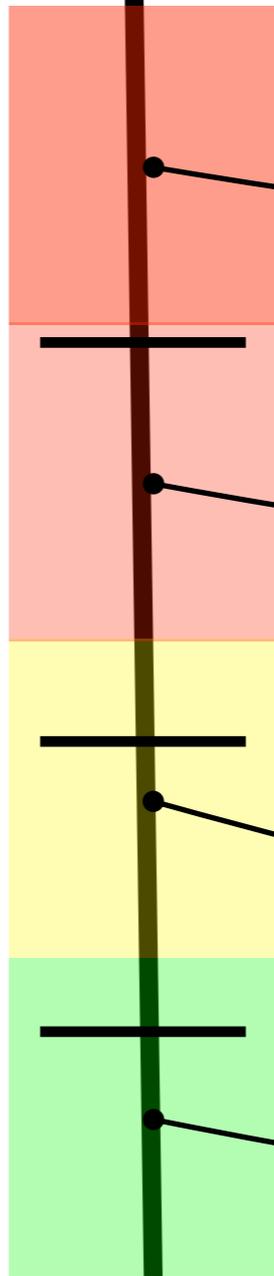
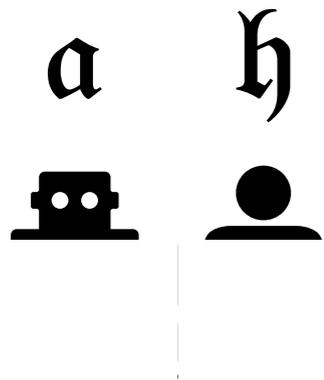
Turing

Pro Checkers/Chess/Go;
EXPTIME

Dockworking; NP-Complete



Demandingness of Jobs



Church

Pro Checkers/Chess/Go;
EXPTIME



Turing

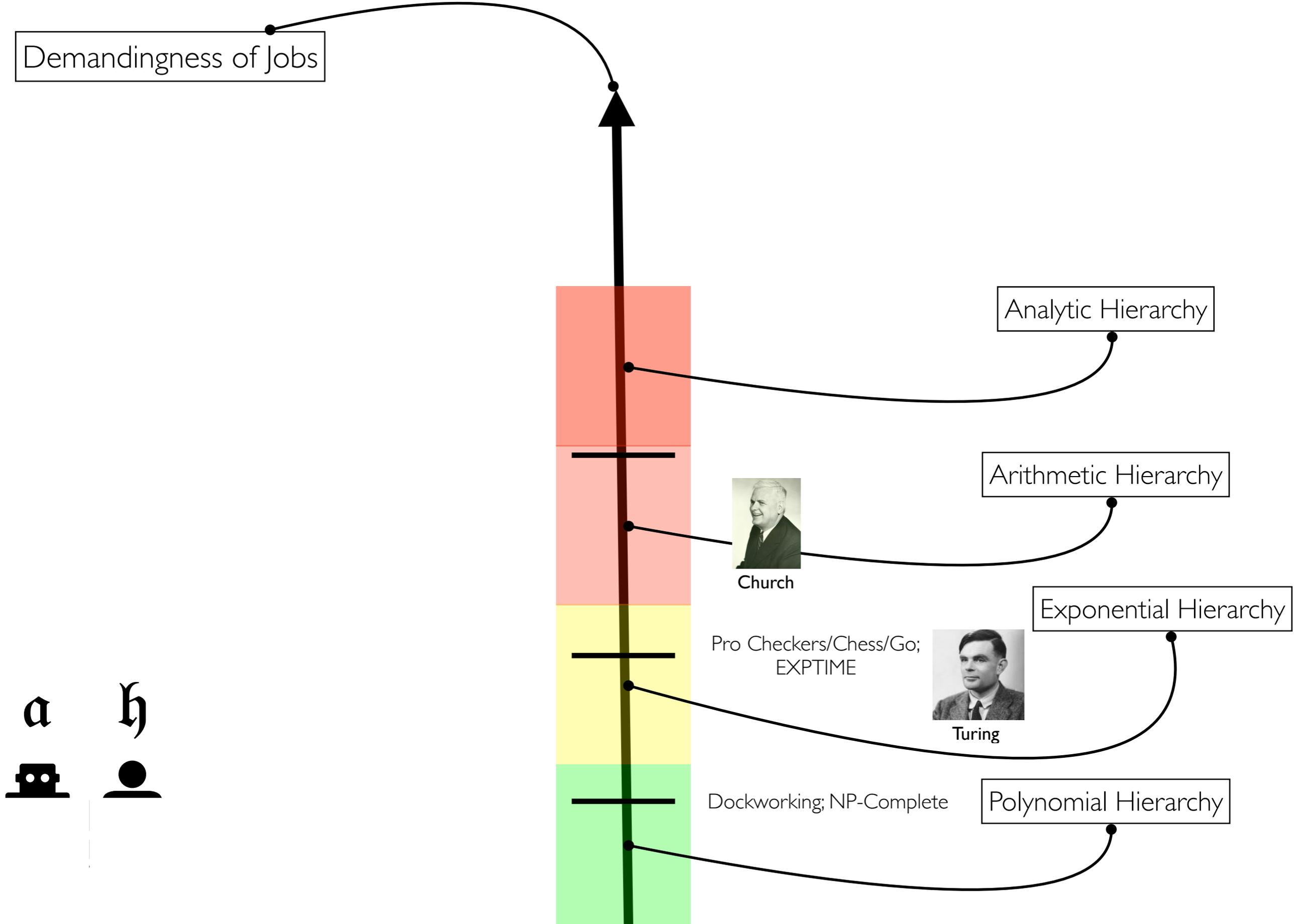
Dockworking; NP-Complete

Analytic Hierarchy

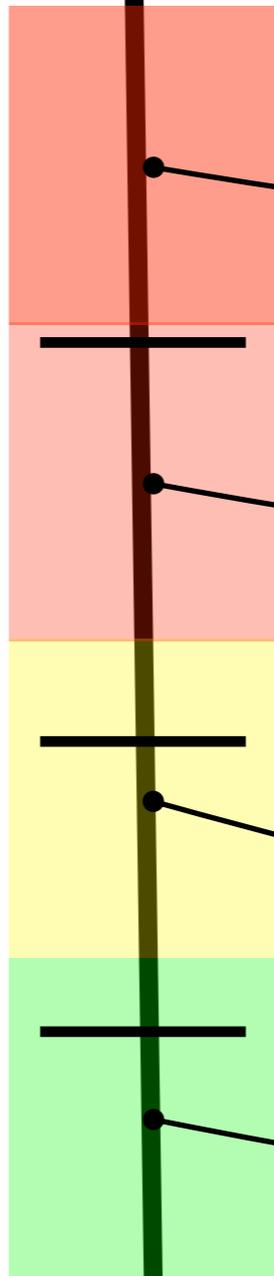
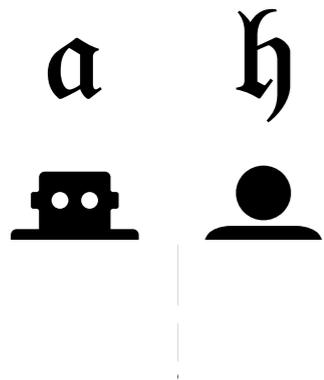
Arithmetic Hierarchy

Exponential Hierarchy

Polynomial Hierarchy



Demandingness of Jobs



Analytic Hierarchy

Arithmetic Hierarchy

Exponential Hierarchy

Polynomial Hierarchy

Aristotle⁺



Church

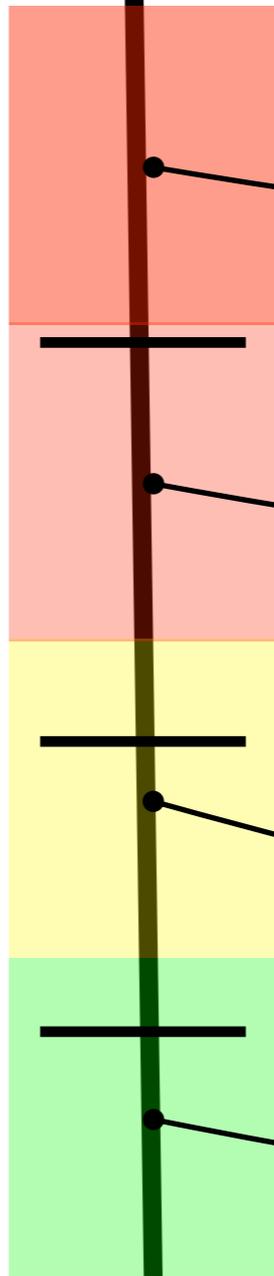
Pro Checkers/Chess/Go;
EXPTIME



Turing

Dockworking; NP-Complete

Demandingness of Jobs



Analytic Hierarchy

Arithmetic Hierarchy

Exponential Hierarchy

Polynomial Hierarchy

Aristotle⁺



Church

Pro Checkers/Chess/Go;
EXPTIME



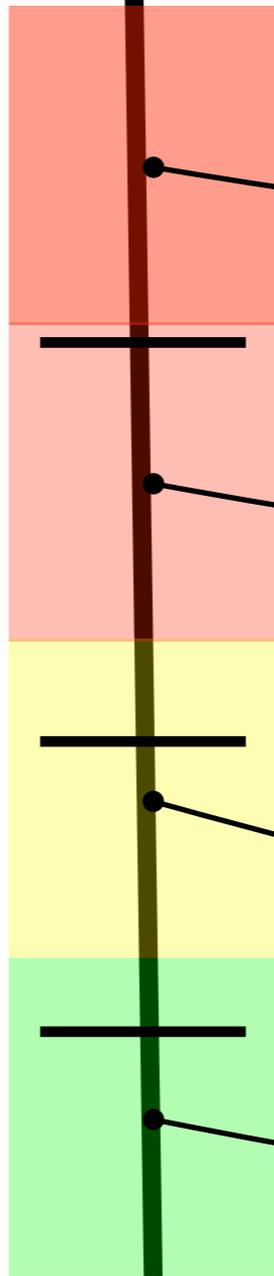
Turing

Dockworking; NP-Complete

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Demandingness of Jobs



Analytic Hierarchy

Arithmetic Hierarchy

Exponential Hierarchy

Polynomial Hierarchy

Aristotle⁺



Church

Pro Checkers/Chess/Go;
EXPTIME



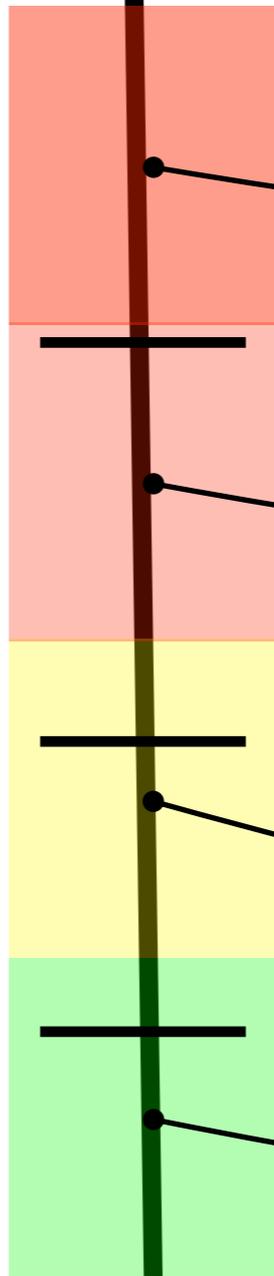
Turing

Dockworking; NP-Complete

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Demandingness of Jobs



Analytic Hierarchy

Arithmetic Hierarchy

Exponential Hierarchy

Polynomial Hierarchy

Aristotle+



Church

Pro Checkers/Chess/Go;
EXPTIME



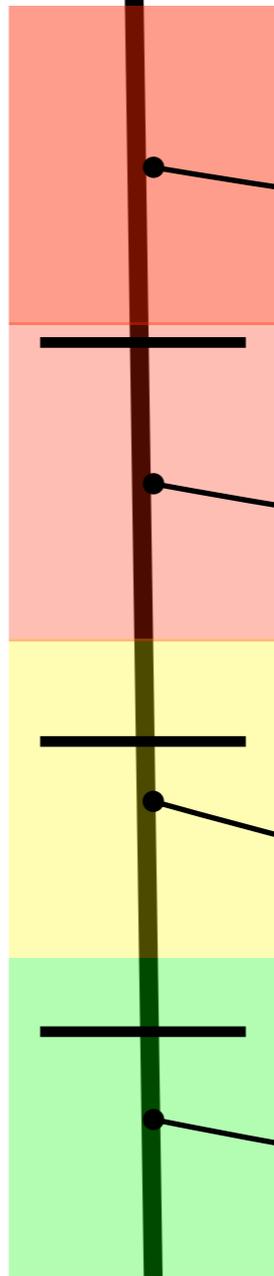
Turing

Dockworking; NP-Complete

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Demandingness of Jobs



Analytic Hierarchy

Arithmetic Hierarchy

Exponential Hierarchy

Polynomial Hierarchy



Aristotle⁺

Church

Pro Checkers/Chess/Go;
EXPTIME

Turing

Dockworking; NP-Complete

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Demandingness of Jobs



Aristotle⁺



Church

Pro Checkers/Chess/Go;
EXPTIME



Turing

Dockworking; NP-Complete



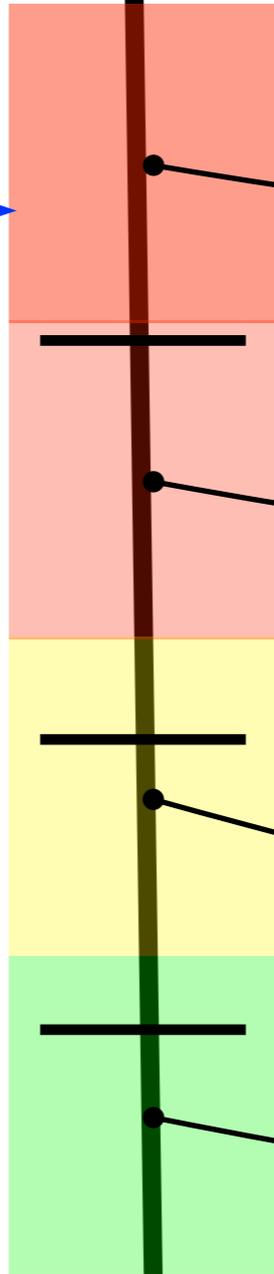
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Analytic Hierarchy

Arithmetic Hierarchy

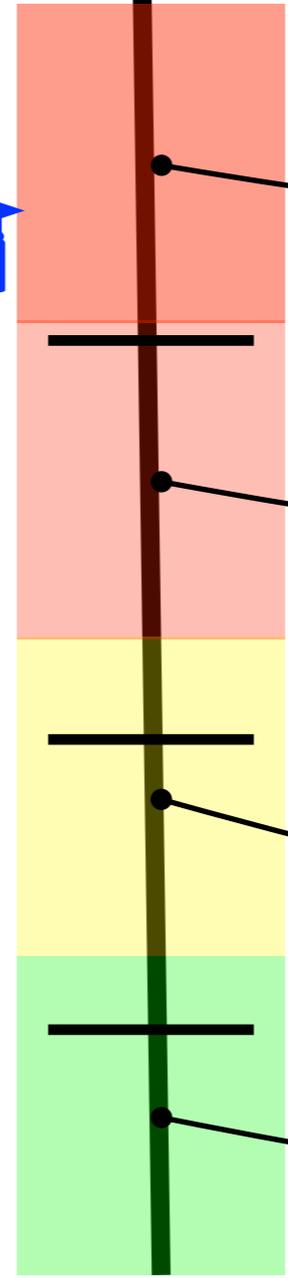
Exponential Hierarchy

Polynomial Hierarchy



Demandingness of Jobs

The saving drivers of demandingness:
precision,
accuracy,
certification — &
creativity/innovation.



Aristotle+



Church

Pro Checkers/Chess/Go;
EXPTIME



Turing

Dockworking; NP-Complete

Analytic Hierarchy

Arithmetic Hierarchy

Exponential Hierarchy

Polynomial Hierarchy

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Demandingness of Jobs

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Aristotle⁺

Pro Checkers/Chess/Go;
EXPTIME

Dockworking; NP-Complete

Demandingness of Jobs

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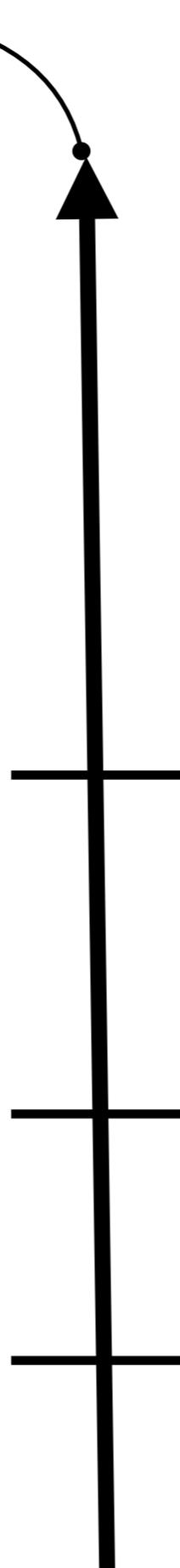
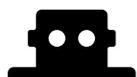
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Aristotle⁺

Pro Checkers/Chess/Go;
EXPTIME

Dockworking; NP-Complete



Demandingness of Jobs

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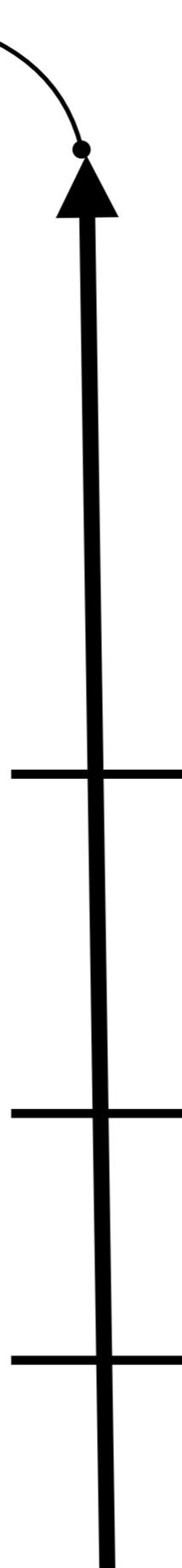
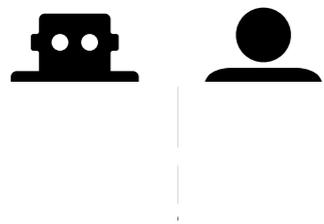
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Aristotle⁺

Pro Checkers/Chess/Go;
EXPTIME

Dockworking; NP-Complete



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Aristotle⁺

Pro Checkers/Chess/Go;
EXPTIME

Dockworking; NP-Complete

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Demandingness of Jobs

The saving drivers of demandingness:

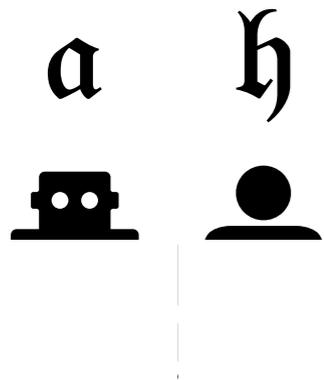
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Aristotle+

Pro Checkers/Chess/Go;
EXPTIME

Dockworking; NP-Complete



Demandingness of Jobs

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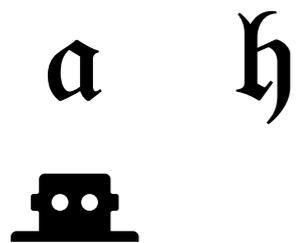
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Aristotle+

Pro Checkers/Chess/Go;
EXPTIME

Dockworking; NP-Complete



Demandingness of Jobs

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Aristotle⁺

Pro Checkers/Chess/Go;
EXPTIME

Dockworking; NP-Complete

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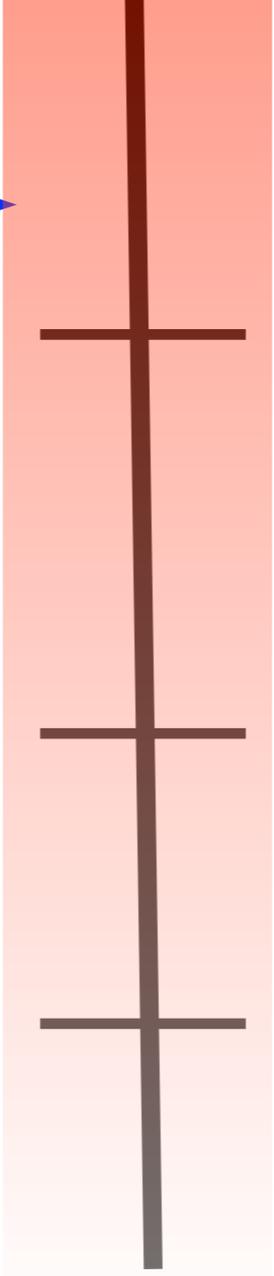


Demandingness of Jobs

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Aristotle+

Pro Checkers/Chess/Go;
EXPTIME

Dockworking; NP-Complete

Demandingness of Jobs

Overlay;
[e.g., Legg-Hutter (now refuted); UCI; MCG⁺]

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Aristotle⁺

Pro Checkers/Chess/Go;
EXPTIME

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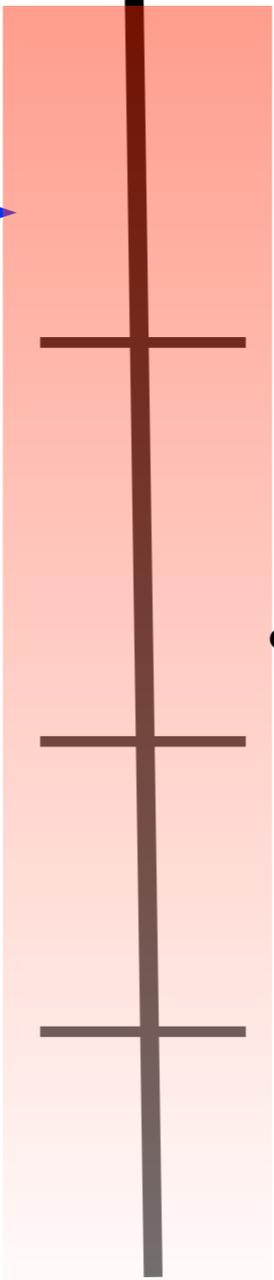


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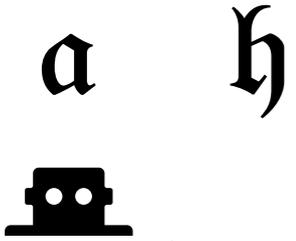
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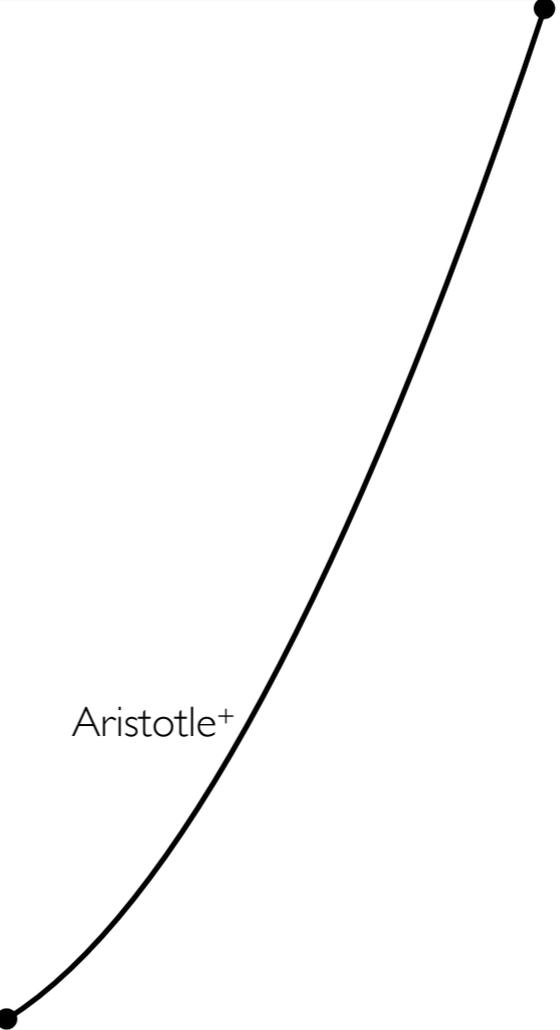
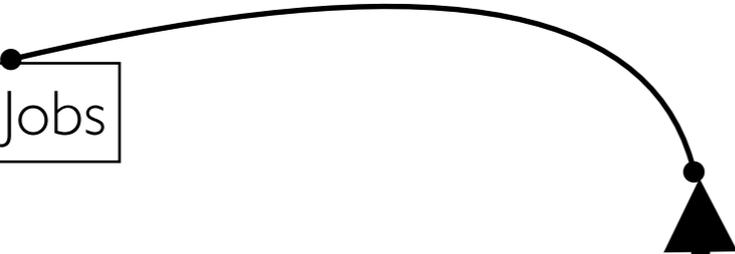
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Dockworking; NP-Complete

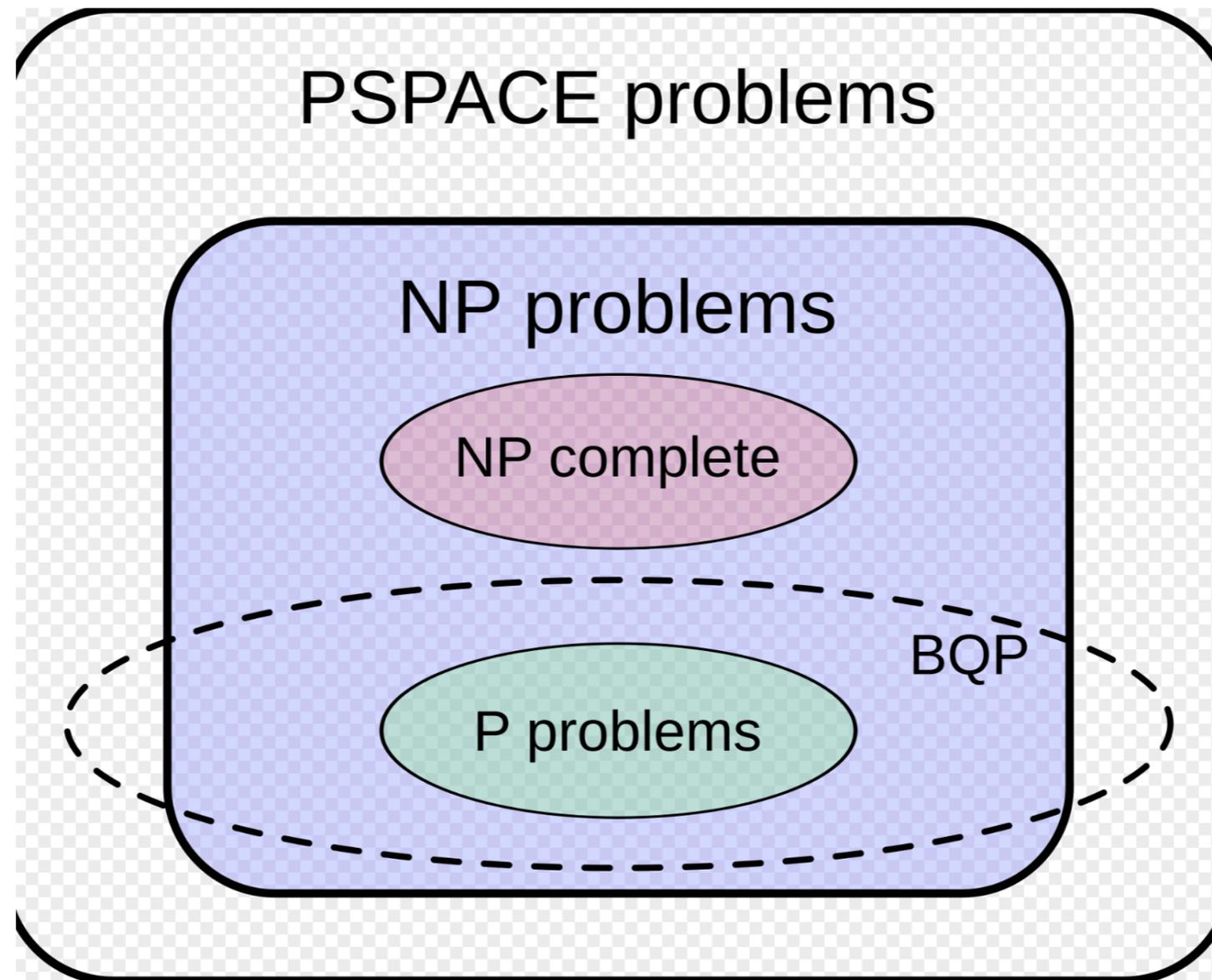


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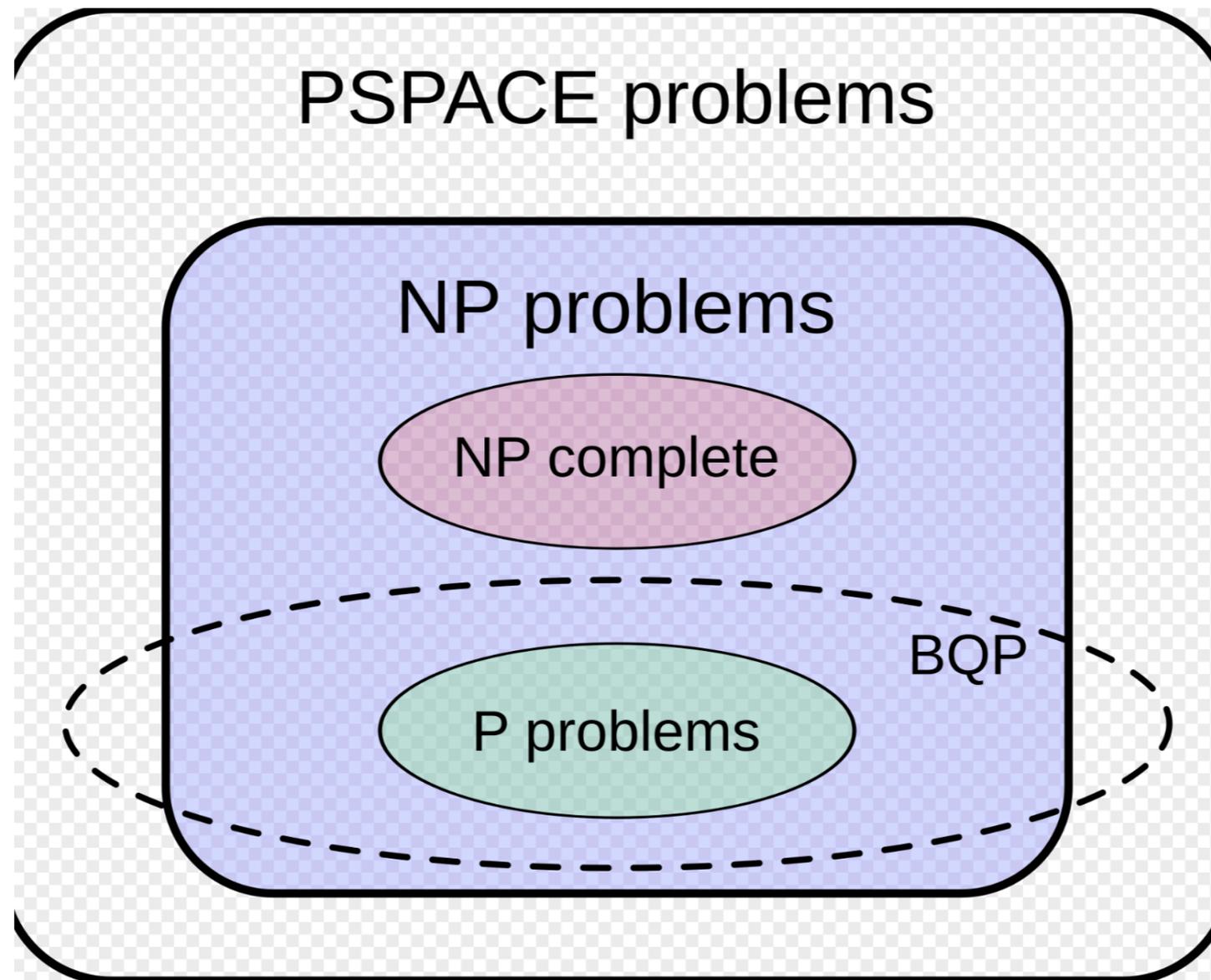
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What about quantum computation?



What about quantum computation?



Precision, Accuracy, Certification: Failure



Anonymous

He has another question!



ChatGPT

No problem! What's the next question? I'm ready to help.



Anonymous

He asks me to assume first that it's not the case that there exists a thing such that, if that thing is a gorker, then everything is a gorker. And then his question is does it follow that I don't exist. Help!



ChatGPT

Let's break down the logical structure of this statement:

1. Original assumption:

- "It's not the case that there exists a thing such that, if that thing is a gorker, then everything is a gorker."
- Formally, this can be written as: $\neg\exists x(G(x) \rightarrow \forall yG(y))$.

2. Restating the assumption:

- The assumption negates the existence of a specific condition. It states that there is no such thing as x which, if x is a gorker, then everything (y) is a gorker.

3. Understanding the implication:

- We need to determine if this assumption implies that "I don't exist."
- "I don't exist" can be written as $\neg\exists z(z = \text{me})$.

Precision, Accuracy, Certification: Failure



Anonymous

He has another question!



ChatGPT

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- The assumption negates the existence of a specific condition such thing as x which, if x is a gorker, then everything (y)

3. Understanding the implication:

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- "I don't exist" can be written as $\neg\exists z(z = \text{me})$.

4. Analyzing the logic:

- The original statement talks about gorkers and the property of being a gorker affecting everything. It doesn't make any claims about the existence of a particular individual.
- The existence or non-existence of gorkers, or the properties of gorkers, doesn't logically imply anything about your own existence.

5. Conclusion:

- From the assumption given, we cannot logically derive that you don't exist. The assumption pertains only to the properties and existence of gorkers and does not provide any information that would lead to a conclusion about your existence.

You can explain it to your teacher like this:

"Based on the assumption that 'it's not the case that there exists a thing such that, if that thing is a gorker, then everything is a gorker,' it does not logically follow that 'I don't exist.' The assumption pertains to the properties of gorkers and does not provide any information about my existence."

This explanation should demonstrate your understanding of logical implications and reasoning.



Anonymous

Ok I will tell him now!



ChatGPT

Great! Let me know how it goes or if you need further assistance. I'm here to help!



Anonymous

He says I'm wrong and that I fail. He is writing on the whiteboard a proof that he says reveals my failure. I am sad.

Precision, Accuracy, Certification: Failure



Anonymous

He has another question!



ChatGPT

No problem! What's the next question? I'm ready to help.



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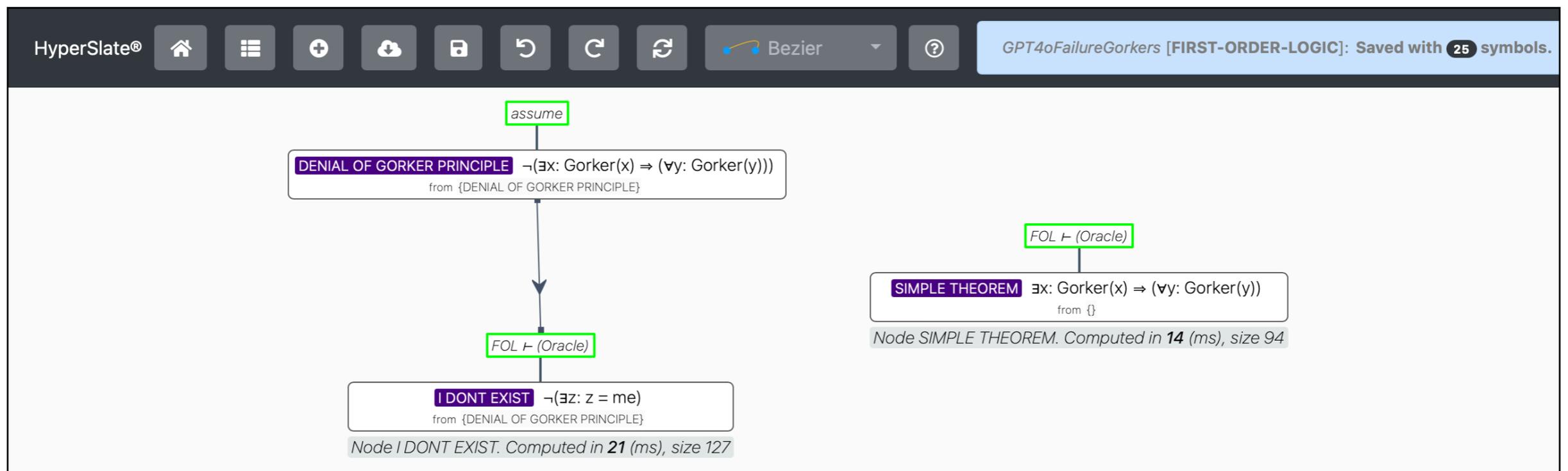
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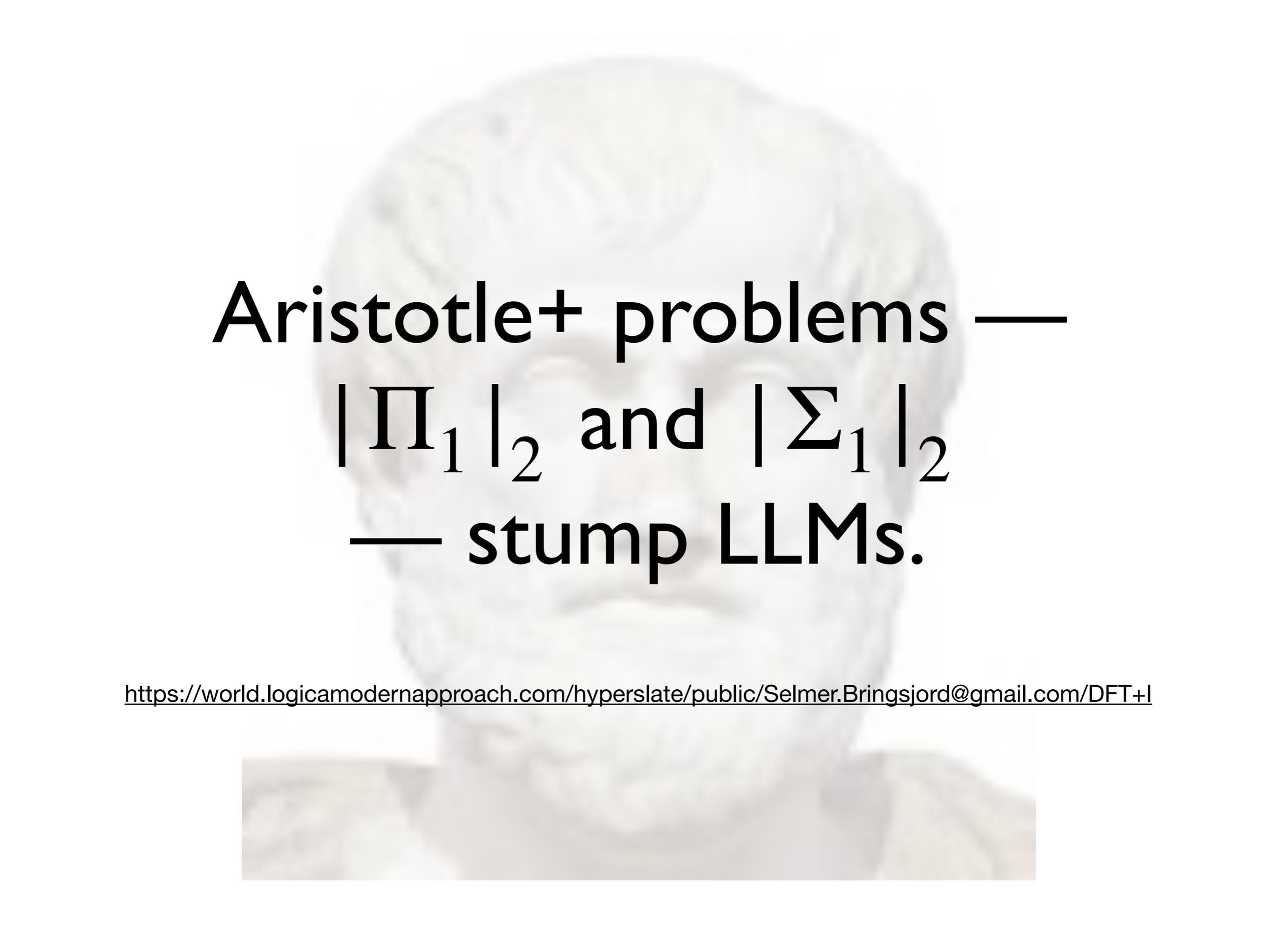
HyperSlate[®]: Genuine AI (> Basic Software) Demo

[Live Workspace](#)

HyperSlate[®]: Genuine AI (> Basic Software) Demo



[Live Workspace](#)



**Aristotle+ problems —
| Π_1 |₂ and | Σ_1 |₂
— stump LLMs.**

<https://world.logicamodernapproach.com/hyperslate/public/Selmer.Bringsjord@gmail.com/DFT+I>

Slutten

Slutten

Appendix: If setting up and running auctions is too demanding for AIs, we have a logico-mathematical escape! — which apparently hasn't occurred to anyone.